

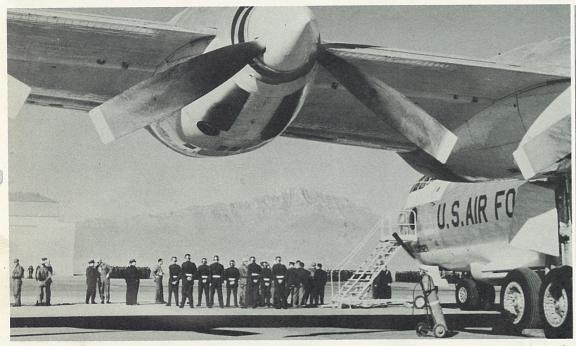
Fort Worth and Daingerfield

EDITION

Fort Worth news office: ext. 2961; Daingerfield news office: ext. 424

SAN DIEGO, POMONA AND ANTELOPE VALLEY, CALIFORNIA

DAINGERFIELD AND FORT WORTH, TEXAS



FROM EL PASO-Air Police and last B-36 crew watch as airmen at Biggs Air Force Base, El Paso, prepare to pass in review to trigger B-36 takeoff for Fort Worth. In background, Franklin Moun-

Last B-36 Comes to Rest Economy Drive At Air Terminal Shrine

USAF officers and airmen, steel-tough after years of rigorous SAC duty, would be the last to admit that they're sentimental softies.

But the SAC men who flew the last B-36 on its last flight are the first to admit that they viewed the "retirement" ceremonies at Amon Car-

ter Field in Fort Worth Feb. 12 through eyes blurred with an over-abundance of moisture. To turn the B-36 over to the City of Fort Worth for a per-

manent memorial, the 95th Bomb Wing crew flew the plane from El Paso after a brief going-away

ceremony at Biggs AFB.
Col. Gerald G. Robinson, commander of the 95th, then took the controls of the bomber-the last one built at Convair Fort Worth and the last to fly for SAC-to send it roaring down the runway on takeoff.

Aboard were 22 men-the last B-36 crew, Amon Carter of Fort Worth, and eight representatives of newspapers, radio and television, including a Convairiety staffer who 10 years earlier had flown in a B-36 which took part in a presidential inaugural parade in Washington, D. C.

Official Air Force designa-tion for the last B-36 flight was "Operation: Sayonara," using the Japanese word now known throughout the world as meaning "goodbye."

After the jets were cut off and the props feathered for cruise at 13,000 feet, the smooth purr of the six piston engines and the almost religious-like faith of the to be towed to its last resting crew in the aircraft they had place—a place of honor where it parts, materials, and equipment. flown so long inevitably led to will be on permanent public dis-

comments...
Such as this by Maj. Ferd Winter, aircraft commander:

"Each man in the crew agrees that this is the finest aircraft he's ever flown-and all of us have more faith in the B-36 than any aircraft we've ever flown."

Winter sat at the controls re- | ment Club.

viewing the program which would can blow us sky-high and out of be held when the B-36 landed at our Air Force contracts. That, Fort Worth. He noted that the in turn, can blast us right out of

"I wish they'd leave that out," he told Convairiety. "We all feel bad enough now-and I almost broke down in public during that program in El Paso.

At Fort Worth the airplane and the vital role it played for peace over a decade was lauded by half a dozen speakers at Carter Field.

Said Lt. Gen. C. S. Irvine, deputy chief of staff for materiel, USAF headquarters: "The B-36 is the first major weapon system of our time to accomplish its purpose and be retired—without having fired a shot in anger. It kept the peace."

Also praising the B-36 were Maj. Gen. Edwin B. Broadhurst, chief of staff of SAC, and Carter. Like comments were made by Gen. Alfred F. Kalberer, deputy commander of the 15th AF, in the program at Biggs before takeoff.

The last B-36 was being prepared at Carter Field this week employees who handle a daily tively pursued. play.

Funds for the concrete apron on which it will rest were donated by the Carter Foundation. Work on the plane itself is being performed by volunteer Convair cost. people whose efforts are being coordinated by Convair Manage-



TO FORT WORTH—Two and one-half hours later, last B-36 dropped down through pea soup to land at Amon Carter Field. ROTC band played national anthem as ship taxiied toward recep- quire hand skid jacks or fork lift tion committee.

Takes Aim on **Handling Costs**

"We need to handle parts, materials and equipment as gingerly as we do high explosives ...

"If we DON'T, the added costs last item would be the playing our jobs—the jobs we need to of "Taps." He frowned. homes, and to provide us with a measure of security in the years

That was the comment of Di-



vision Manager Frank W. Davis

This handling cost is substantial: more than \$5,750,000 in 1958 that could be directly identified; actually, the total is more. But Convair is taking significant steps to help employees reduce this

Example: this week about a quarter of a million dollars worth of new material handling equipment is appearing all over the plant.

In all, there are 700 more new "live" skids plus accessories designed to improve handling of specific types of items. brings to a total of more than 2,200 the number of live skids obtained in the past two years.

(Skids, of course, are the platforms on which employees place parts and equipment for moving from one area to another.

("Live" skids are those with wheels. They can be moved by hand, or several can be moved at one time by a tow-truck. "Dead" skids have no wheels. They re-(Continued on Page 8)

Major Revision In Effect For CIPs and ESs

Convair Fort Worth's Employee Suggestion and Cost Improvement Proposal programs are undergoing major revisions as a follow-up on the "Ideas to Esenwein" cam-

Revisions include broadening of rules for eligibility, acknowledgment of CIPs and |-ESs, immediate installation of ideas if proven good, new types of awards, and the return of rejected proposals and suggestions.

Conrad Kunze, industrial engineering manager, said an employee can now be paid for a job idea within his classification but not in his job expectancy.

The same acknowledgment forms will be sent out for all ESs and CIPs, but now all such forms will be personally signed by the industrial engineering manager.

Supervisors will now take immediate installation action instead of waiting for formal approval of proposals - providing the ideas are good ones.

Certificates of merit for ESs and certificates of commendation for CIPs approved and installed will be awarded under the new plan.

"We have also designed new award emblems in the form of lapel pins, cuff links, tie bars and compacts for approved and installed ESs and CIPs," Kunze

Every eligible suggester will receive a sterling lapel pin for his or her first ES or CIP installed after Jan. 1.

In addition, records are to be established from Jan. 1, and cuff links and tie bar set, with this same emblem in gold, will be awarded to each eligible suggester when his total ES savings passes \$10,000 or when his total CIP savings totals \$25,000 (compact for ladies in this case).

Previously, CIPs that fell short of \$100 savings and ESs that fell short of \$50 in savings were not accepted. Now, under the new plan, these proposals will be accepted regardless of the amount of savings.

Previously, CIPs and ESs that duplicated company projects were rejected. But under the new plan, these proposals will be accepted this week as he studied reports provided the company project on steps Convair is taking to help has not been approved and ac-

average of about 300 tons of M. J. Scott of the suggestion section says because of necessary time for procurement for certifi- vided into five basic groups and cates and jewelry, the first placed with others doing similar awards will probably not be work. ready for 60 days.

Cost-Cutting Ideas Show Big Increase

Employees who answered the division manager's recent appeal for ideas are now encouraged to continue their costcutting efforts through normal channels: the Employee Suggestion program and Cost Improvement Proposal program.

"We sincerely appreciate the response," said Frank W. Davis, division manager, "and we now return to the regular channels. We hope employees will be just as active in the future as they have been in the past few weeks."

Since the original appeal (Convairiety, Nov. 12), total of all ideas submitted by employees has increased more than seven times.

"Largely as result of suggestions of employees, we have taken a close look at the entire ES-CIP programs—and have revised them in an effort to provide added encouragement for employees to submit costsaving ideas, and added recognition for those who do."

Dept. 48 Wins Safety Honor

Convair Fort Worth's plantwide safety banner award for the last quarter of 1958 went to Dept. 48 recently in a brief ceremony. B. G. Reed, assistant division manager, made the presentation.

This and other quarterly awards were presented at a meeting of supervision of factory assembly departments. J. E. Harwell, factory manager, presided.

Accepting the plantwide safety banner for Dept. 48 was F. W. Giles, forman. Dept. 48 scored 487 out of a possible 500 safety points last quarter in the factory safety contest.

The contest keeps 36 departments in constant safety compe tition. The departments are di-

(Continued on Page 8)



SAFETY FIRST-F. W. Giles, left, of Convair Fort Worth's Dept. 48, accepts plantwide safety banner and group safety banner from B. G. Reed, assistant division manager.

Underground Facilities Give Atlas Base Look of Simplicity

for the Air Force, and "home" to more than 400 Convair Astronauveled parking lots. Office builda nervous chameleon these days otherwise improved.

Vandenberg Air Force Base, Miller, VAFB manager, are also hillton overlooking the Pacific buildings and many other sepa- tower stands near the block-

ballistic missile training center seeing constant changes. Their Ocean some 300 miles north of rate structures. At Vandenberg house to hold television cameras. San Diego. Across a wide valley these are underground. is "Launch Complex 65-2," antics employees, is somewhat like ings have been partitioned and a nervous chameleon these days otherwise improved.

| Althoration | Althoratio

there brings about a new look las ICBM, probably show the Range in Florida, Missile Static and controls in the blockhouse

"65-1" consists of three launchever changing.

A multi-million dollar construction and renovation program

the struction and renovation program

the struction and renovation program

the struction and renovation program

for ballistic missiles like the Attorn at the Atlantic Missile bor. A single set of instruments

Each pad consists of a huge concrete platform, much longer like moving along the flight deck of an aircraft carrier whose bow is anchored on land. Near the highest end is a gantry tower mounted on rails. Below it is the there brings about a new look almost daily. New homes, offices and work areas, new roads and an almost-complete landing strip are noticeable additions.

Astronautics personnel, members of Dept. 576 under W. F. learning and controls in the blockhouse and even Sycamore and even Sycamore and even Sycamore can be utilized for all three pads. Canyon in California, Vanden-launching site for the Atlas. It is called "Launch Complex 65-1" by Astro peoples of Dept. 576 under W. F. learning wiring and cables stretch of simplicity. Missing are the bers of Dept. 576 under W. F. learning wiring and cables stretch and controls in the blockhouse in the blockhouse and dontrols in the blockhouse and controls in the blockhouse and controls in the blockhouse in the blockhouse and controls in the blockhouse and cont for offices, rest rooms, fuel tanks, instrumentation terminations, safety devices and storage. Steel doors seal off these areas at launch time. An elevator climbs up one side of the gantry tower. There are spaces for checkout trailers, floodlights, camera installations and other equipment outside. Over a nearby hill is a power station.

The blockhouse is also in contrast to similar equipment at other test bases. It, too, is simple (at least, by comparison).

"To better understand our facilities it is necessary to know the basic operational differences between this and other test bases," Miller said.

Other Astro-operated test facilities are geared to research and development. To get a clear picture of how each system and component functions requires elaborate instrumentation and recording devices. These are found both on the missile and launching facilities. And to check and recheck this equipment is a timeconsuming project. As a result, countdowns are lengthy, often extending over many hours.

However, the end justifies the means, since by these development tests Convair is able to determine necessary changes in the missile and its support equipment. The ultimate goal is to present the Air Force with a "debugged" weapon system, one ready for action at all times.

"At Vandenberg we concentrate on the operational," Miller explained. "That is, we are installing facilities like those Air Force men will handle when they take over operational bases. We are presenting the Air Force with a proven system, one ready for

Toward this end, Vandenberg is contemplating countdowns in terms of minutes, not hours!

instant use."

Another unusual aspect of Vandenberg operations calls for "one-of-three" programming. Here's how it works:

A complex, like 65-1, will have three Atlas missiles ready for firing. Countdowns started on one pad will be carried swiftly through to launch unless some-thing happens. If there is evidence of malfunction, that countdown will halt immediately. Launch control will be swung to another pad and a second count-

no cost to you. It means your monthly benefit upon retirement tach a single skin to complete missile will be removed and an tach a single skin to complete missile will be removed and an included and an include the missile will be removed the other erected in its place," Miller

"But our primary effort will be directed toward activating a facility that can be used to fire

one or more missiles." Vandenberg AFB is a ballistic missile training base responsible for bringing together and training future operational crews. At the same time it will help establish initial operational capabilities for the Atlas and all its

support equipment. Future Air Force missile crews have been training at Convair Astronautics for some time. In April the first major "graduation" occurs. Officers and technicians will emerge with a thorough training in individual systems and components. They then move to Vandenberg for further training. Called Integrated Weapons System Training, the program will weld together the individual skills of the men into

All training of Air Force personnel is the responsibility of Astro's product support.



ATLAS TRAINER-Vandenberg AFB missile training center, home for 400 Astronautics folk, is developing rapidly. Top center, taken from atop gantry tower, shows bird in another tower, with blockhouse at right. Below, center, is tower up close, illustrating how fuel tanks, etc., are underground. At top right are G. A.

Calvert, chief of product support, and W. F. Miller, Astro base manager at Vandenberg. Below left, Col. W. S. Rader, commanding 704th Strategic Missile Wing, and Col. J. J. Easton, commanding 576th Strategic Missile Squadron, are in blockhouse with Calvert and R. J. Meeker, principal field service engineer.

Annual Retirement Plan Statement Explained in Simple Language

tirement plan statement this week-if you're one of the approximately 18,000 Convair Fort

Worth employees in the plan.
The words below explain some of the high points of the statement. If you have further questions, check with your supervisor. If he cannot answer your questions, ask him to make an appointment for you to talk with a retirement representative in employee services section.

WHAT STATEMENT TELLS

The statement you receive tells you these things: what added retirement benefits you built up in 1958, and what your monthly benefits would be if you were 65 and retired now.

the plan and your level of earnings in that period, and other factors.)

First, a few words on statements received by hourly employees, after which will follow comments on statements of covered salaried employees.

HOURLY EMPLOYEES

All full-time hourly employees are covered by the retirement plan. They pay no money for this plan. The company pays all

The statement hourly employees receive first identifies the employee. After that, there are three columns. The figures in each column are explained as follows:

1. "Months of credited service during past year." The monthly benefit you receive when you retire is based partly on the months you worked which are credited to your account. This column simply Air Force plant representative. shows you how many months' credit you added in 1958.

If you were credited with 1800 hours or more, you added a full depot and the midwestern proyear's benefit. If the figure is curement division office in Dalless, you added one-twelfth of a las.

You'll receive your annual re- | year for each 150 hours' credit. | year's continuous service. 2. "Monthly benefits resulting from service during past year.' This column is further divided into two sections, "base" and "ex-

> In the "base" column, you will find \$1.75 if you added a full year's credit. This means that your monthly benefit at retirement is \$1.75 a month more than

it was a year earlier. Under the word "excess," you find another figure. This is the monthly benefit added to your retirement benefit payment over "excess" figure is 11/2 per cent of all base wages above the Social Security base of \$2.02 per hour. But, with these exceptions: ex-

age 65 based on service to end of it was a year earlier. past year." This is the benefit The second figure you would receive monthly if you were 65 today-and retired to-

SALARIED EMPLOYEES

Salaried employees may choose whether to build up benefits in the retirement plan—if they are between 25 and 65 years of age, and if they have more than one

Veteran Inspector For AF Retires

Convair Fort Worth's Jack W. Ingram, Air Force quality control inspector, retired this month after 30 years with the federal civil service.

Ingram was surprised with a brief retiring ceremony in the office of Col. Leonard R. Hall,

He came to Convair Fort Worth in 1948 and previously worked in the San Antonio air

But salaried employees pay a portion of the cost under their plan. The company pays the rest. Salaried employees also find three groups of figures on the statement. The groups of figures are explained as follows:

1. "Employee contributions." The first figure shows the total you paid from the time you entered the plan up to Dec. 21 (end of the plan year)-plus interest. The second figure shows what you paid in 1958 up to that date.

2. "Monthly benefits resulting and above the "base" figure. The from contributions paid during past year." There are two figures here, too. The first shows the "base." That amounts to \$2.45 for all salaried employees (If you are not 65 now, what cluding first year of continuous in the plan who made \$350 a pend upon how long you were in the plan and your level of earn
3. "Monthly benefits payable at at 65 is \$2.45 a month more than

The second figure shows the dollars added to your monthly benefit as a result of Convair's payments plus your own payments during 1958. It amounts to two per cent of that part of your salary over \$350 a month. The word "salary" here means the salary you were receiving on

Dec. 23 of 1957. 3. "Monthly benefits payable at age 65 based on contributions to end of past year." This is the same as item 3 in the hourly plan explained above. It means the amount of benefits you would receive if you were 65 and retired today.

To repeat, what you actually will receive upon retirement at age 65 will depend upon how long you have been in the plan, and the level of your earnings during that period.

(All Convair retirement plan benefits are, of course, in addition to any Social Security payments you may receive. information, see Convairiety, Jan. 21, 1959.)

Simpler Wing **Panel Designed**

A new simplified design for production of B-58 wing panelsone which design engineers believe will be both better and less costly-was under intensive study this week at Convair Fort Worth.

The new design, in the opinion of engineers, will give B-58 wing panels improved heat resistant characteristics, in addition to providing savings in time and money.

The secret is in the development of the one-piece integral skin-slug combination panel.

In the new panel, one piece of metal is etched chemically in such a fashion that one surface becomes a skin, according to M. S. (Marv) Howeth of manufacturing research.

Cross members remain to form down started. you will receive upon retirement at that age, of course, will deprior to your 25th birthday. Then no cost to you. It means your that the slug. Inside these, honeycomb is fitted to provide the core. Then all that remains is to at follow malfunctions. If major the panel.

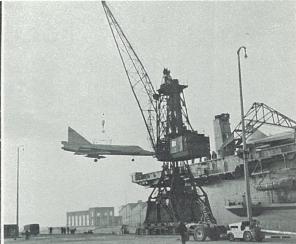
D. L. Allie, senior manufacturing research engineer, said that with the new method, contour panels can be manufactured, while with the old method only flat panels were possible.



NEW DESIGN - New onepiece integral skin-slug combination wing panel designed at Convair Fort Worth for B-58 is compact crews. shown here by M. S. (Marv) Howeth of manufacturing research.













F-102S REACH EUROPE—First Convair jet interceptors to be based on foreign soil were unloaded from Navy aircraft carrier "Croatan" at St. Nazaire, France, last month. At lower left, F-102As and TF-102A trainers are "decocooned" from protective covering at Sud Aviation hangar before being flown to Bitburg Air

Base, Germany, where they will be attached to 525th Fighter-Interceptor Squadron of 86th F-I Wing of USAF Europe. Shown in lower center (left to right), Maj. B. H. Barton; Lt. Col. R. S. Brown, commander of 525th FIS; Col. C. M. Young, commander of 86th F-I Wing; and Maj. J. B. Anderson.

Scale Models Explain **B-58 Ground Support**

tler bomber, complete with scale model ground support equipment, is helping the Air Force in Washington this month to create a better understanding of today's sophisticated weapon systems.

It is the second year in a row for a Convair product to be chosen for this purpose. Last year it was the supersonic F-106 allweather interceptor being produced at Convair San Diego.

Since it would be impossible to wheel a B-58 and its ground support equipment through the halls of Congress and the Pentagon, scale model displays created at Convair Fort Worth are being used by Air Force teams doing the job.

"This, in my opinion," said J. T. Cosby, B-58 program di-rector, "is because Convair people at San Diego and Fort Worth are creating the most advanced weapon systems of our time. And it is an honor that we're tagged to help out."

To understand today's weapon systems, including their ground support equipment, takes only a quick look back into the history

of aircraft.
"There was a time," Cosby explained, "when an airplane was almost wholly self-contained. It carried with it—in flight—almost everything it needed.

take off, a ground crew member gineer. start the gine-and that was it."

But today's sophisticated weapon systems are as different from that as a crystal radio differs from a 1959 TV.

To give the aircraft maximum

A scale model of the B-58 Hus- | speed, altitude, range, and target-hitting capability, everything not absolutely needed in flight is left on the ground, and that's ground support equipment.

> Today's super-systems for bombing, navigation, reconnaissance and so on require testing before missions to make certain they're operating as they should. So ground test equipment is built to do the job.

> "To check out such a system," says Cosby, "the test equipment must be 'smarter' than the system itself. Further, the test equipment must have built-in feedbacks so it can check on it-

> To broaden understanding of these new concepts in today's advanced weapon systems, Air Force teams are making presentations in the Department of Defense and before congressional committees.

For this purpose they use scale models.

The models were built by employees of FW Dept. 82, according to G. C. Gann, assistant foreman. Using the models, then, complete displays were created by employees in illustrations section, according to Johnie Herbert, supervisor.

The models, including some 18 different ground support items, were taken to Washington by O. When the pilot was ready to N. Shivers, assistant project en-

> crate equipment used when it is given a periodic mainbeing loaded, and when other lines at Tokyo, Japan. necessary operations are being performed.

Tiny Airport Aids Customer 600 Briefings

First orientation course on the Convair 600, sister ship to the 880, will be presented to American Airlines the middle of next

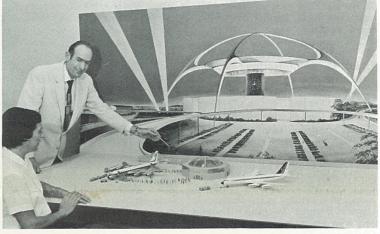
A team of field service representatives will go to Tulsa, Okla., American's headquarters, to brief management personnel on the latest developments incorporated in the 600. First Convair 600 is expected to be delivered in June,

Glen Arner, Harry Addis, and John Nowak of customer service (Dept. 15-4) will be equipped with one of the group's latest visual aids, a large diorama realistically showing the 600 and 880 at a typical airport. Models and tiny figures, all made at the Convair SD plant, demonstrate the ground-servicing technique turn-around capability

Convair's jet transports. Customers will be shown graphically (with time recorded on tower clock) how the streamlined servicing is designed to get planes off the ground in the minimum of time (25 minutes). All servicing is done from the righthand side of the plane and all passenger loading and unloading from the left-hand side.

Twelve men in the field service group, supervised by R. K. Hall of transport service, have already special developments and unique taken comprehensive 880 infor- designs, instead of dwelling on to TWA. when the B-58 is on alert status, Mo.; Delta Air Lines, Atlanta, every aircraft," said Maxion. Ga.; Capital Airlines, Washingtenance inspection, when a pod is ton, D. C.; and the Japanese Air-

afield to bring the same data to the General Electric CJ-805-21 velopment program.



DIORAMA—Glen Arner of Convair SD transport service points out to Mary Applegate ground-servicing advantages of Convair's new jet transports, 600 and 880, with realistic airport diorama used in customer training.

Transcontinental in Argentina by this fall.

At home, the courses have been given on a trial basis to Convair SD personnel in educational services, production flight, service parts, and provisioning customer representatives.

These condensed courses given to customer planning and management people at customers' headquarters are of about 12-hr. in length, or approximately a week's duration, explained Don Maxion, in charge of the customer training program.

"We emphasize Convair's own Kansas City, conventional features common to

For instance, Scotchweld bonding is explained in detail, and advantages of the integral fuel is assigned to SD engineering Trips are being planned farther tanks, and, in the case of the 600, under Convair's executive de-

customers in other parts of the engine which will provide higher world—Swissair and SAS in thrust and lower noise level, and Europe; Real in Brazil and the anti-shock bodies on the wing to reduce drag from shock waves.

Orientation handbooks, visual aids, diagrams and drawings, and tape recordings are compiled in the SD section to supplement all lectures.

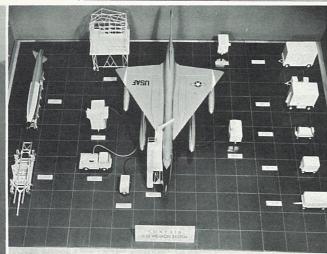
When the full-length maintenance training program starts for 880 customers this summer in the new training area in Bldg. 4, Plant 1, it will be a 240-hr. course extending over six weeks' time. Specialists from TWA will be arriving about mid-summer.

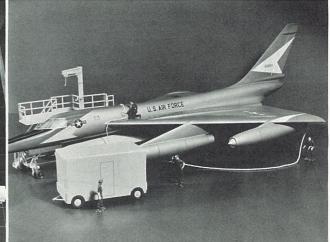
The program is set up as a part of the customer service department under L. J. Bordelon, chief of transport service.

TO ENGINEERING

P. M. Benner, chief of inspection at Convair SD Plant 2, now

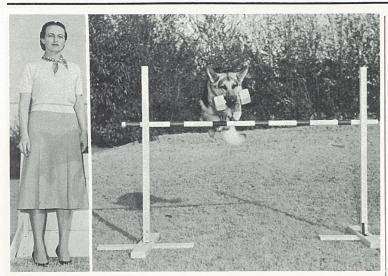






PENTAGON ASSIGNMENT—These models of B-58 and ground support equipment have been helping USAF explain weapon system. In center is airplane with

units normally needed for support. At left is bombing-navigation mobile test set. At right defensive electronic counter-measures system test set is in place.



FETCH, TIA!—Anna Stucker, wife of H. T. Stucker of Dept. 6-1 goes through a few obedience tricks with her 21/2-year-old German police dog, Tia. They are preparing for an AKC show slated for

Seven From Convair FW Qualify For 'Expert Dog Handler' Title

dog house" lately - and at the same time have remained on good terms with their better halves.

The seven are all dog trainers preparing for the American Kennel Club show in March.

These include C. H. Buse, Dept. 19-4; Ann Gillespie, daughter of Paul Gillespie of Dept. 6-2; J M. Clark Jr., Dept. 6-1; Mrs. H. T. Stucker, whose husband works in Dept. 6-1; Rex Robinson, Dept. 22-4; R. E. Finch of Dept. 6-1; and Mrs. R. B. Morse, whose husband works in Dept. 22.

All seven trainers are members of the Fort Worth Obedience Club, an organization for dog handlers.

"One thing about the Fort Worth Obedience Club," Clark said, "is that you can't join until you have become a proficient handler.'

Purpose is to train the handlers-not the dogs.

The club meets almost every Sunday afternoon at Dobson Kennels, south of Benbrook. Owner Dwight D. (Bill) Dobson Jr., who trains youngsters at the Children's Museum in the spring and fall, acts as instructor.

According to Mrs. Stucker, there are actually four degrees that the canines may work to-

The first is recognized as the "companion dog" or CD degree. In order for a dog to fall in this category, he must be able to do a figure eight, stand for examination, sit for one minute, remain down for three minutes, recall, heel on and off and stop and sit down.

Second degree canines get the CDX or the companion dog excellent title. Here the dog does more advanced tricks off leash and drops on recall as well as retrieves a dumbbell. He also does high jumps, broad jumps, remains down five minutes and sits three minutes with his handler out of the room.

(UD) category must heel off product.

Seven Convair Fort Worth peo- leash, work with hand signals, ple have been "in and out of the dog house" lately—and at the able to seek through scent distinction, etc.

The fourth degree is for the tracking dog.

Degrees are won at AKC shows. Dogs must compete and make a passing grade in three

Digital Computer Specialists Meet

Ben Ferber of Convair SD's digital computing lab is presiding over a meeting of digital computing specialists in New York City this week (Feb. 17-20).

As president of the national SHARE organization, Ferber will conduct the convention sessions to be attended by approximately 300 people representing more than 100 computing centers. SHARE sets standards and pools working efforts so that computing groups can achieve the best use of certain IBM digital computers.

Also attending from Convair SD is Dr. C. J. Swift. Astronautics sent Dr. P. E. Lewis, T. R. Dines, and D. B. Parker. Two delegates each were to represent Convair Fort Worth and Electric Boat Division.

Convair Arranging Tours of 880 Line

Convair SD's field representatives are being progressively called home from their posts in various parts of the world to become familiar with the 880 and to help with the indoctrination of customers at home base before going back into the field again.

Besides their formal presentations, members of the training sections are often called on for lectures on specific phases of the 880 on behalf of other Convair departments. They also assist in plant tours for visiting groups and always have a big welcome sign out for anyone who wants Dogs in the third or utility dog to learn about Convair's latest



"When you got married and had six kids, I thought you had settled down . . . now what's this I hear about your needing more

Orphan Boy From Korea Adopted by Convair AV Family

Although Korea and Antelope Valley are far apart in both distance and customs, a charming little 21/2-year-old boy has bridged both gaps to make himself at home with a Convair family.

The distance was bridged by a 22-hour flight from Korea aboard Northwest Orient Airlines plane, and the transition from life in a Korean orphanage to life in an Antelope Valley home was easily accomplished with the aid of a new father, mother, two sisters and a brother.

On hand to greet their newlyadopted son and brother when he landed at Los Angeles International Airport at 5 a.m. Jan. 15 were Mr. and Mrs. Bruce Sunde and their three children, Sally, 9; Sandy, 6; and Bruce, 3½. Sunde is in charge of special projects at Convair Palmdale facility.

The newcomer, whose Korean name, Duk Su-Lee, was changed



VISITOR-Mr. and Mrs. Bruce Sunde with newly-adopted son, Michael Benedict. "Ben" is making himself at home at Sunde's desk in Convair Palmdale, Dept.

to Michael Benedict when he was christened at a Catholic orphanage in Po-Hang, Korea, has been nicknamed "Ben" by the Sundes. He is the child of an American father and Korean mother and has been cared for at the orphanage since he was six months old.

His adoption by the Sundes vas arranged through the Catholic Welfare Bureau. Ben and 11 other orphans en route to new homes in the United States traveled as far as Seattle in the care of a Catholic nun. An airline official took Ben under his wing for the Seattle to Los Angeles

Sunde describes his new son as a bright and cheerful child in good physical condition. The voungster has adapted himself readily to his new surroundings, enjoys American food, and in just a few days time had already picked up quite a number of American words such as "Hi," "Mama" and "Daddy." He is particularly adept at the good old American custom of shaking hands and saying, "How are you?"

Sally, Sandy and little Bruce (none are adopted) are proud of their new brother and find him very entertaining, Sunde stated.

Ben's arrival culminated a waiting period of two years during which the Sundes were seeking to adopt a Korean orphan. The expiration of the Refugee Law and the requirement for registration when the new law went into effect accounted for part of the delay, Sunde explained, and a further postponement resulted when a child previously selected became unavailable for adoption. The actual waiting time for Ben was just eight months from the time the Sundes were provided with a brochure describing and picturing the little boy.



CLOUD MAKING-Unusual weather conditions, plus an unusually long Atlas engine run (4 to 5 minutes) recently at Astronautics' Sycamore facility produced cloud that hovered overhead

University of California Extension Faculty Includes 25 San Diego and Astro Instructors

and Astronautics engineers and research engineer and P. Jerome mathematicians are included on the faculty of the University of California Extension's spring program.

From Astronautics are: Jack J. Block, training specialist; Carl G. Erickson, senior electronics engineer; Edward M. Getzoff, mechanical engineer; James J. Herman, senior electronics engineer; John E. Leib, senior dynamics engineer; Philip J. Swanson, group engineer; E. Ward Cheney Jr., senior research engineer; Allen A. Goldstein, design specialist; James F. Haskins, senior research engineer.

Also Ta Li, design specialist; Jack M. Maughmer, design sign specialist.

Twenty-five Convair San Diego | specialist; K. Leon Montgomery, Short, mathematician.

Convair SD instructors are: Harry G. Cooper, numerical control engineer; Glen M. Dodd, senior electronic engineer; Robert M. Kuhns, assistant flight test group engineer; Samuel A. Milliken, senior dynamics engineer; Ching H. Yang, senior dynamics engineer; Hideo Yoshihara, head, theoretical aerodynamics.

Also Lester Kraus, design specialist; Leo Lapidus, senior research engineer; James P. Mitchell, research engineer; Theodore Rubin, senior research engineer; Charles J. Swift, design specialist; David B. Medved, de-



FIRST LOOK-First photograph of Atlas missile assembly line at Astronautics plant was released this month.



CONFEREES—Discussing some of sessions at recent 38th Air Force-Aircraft Industry Conference are, left to right, Joseph J. Alkazin, Howard R. Kennedy, both Convair San Diego; William F. Funk, Convair Fort Worth, and Charles S. Brandt, Convair SD.

NEWS FROM OTHER DYNAMICS DIVISIONS

General Dynamics Corporation, created in April, 1952, as successor to Electric Boat Company, is composed of six divisions and a Canadian subsidiary, Canadair Ltd. of Montreal, airframe builders. The divisions are:

Convair, head offices at San Diego, Calif., aircraft, missiles and space systems.

Electric Boat of Groton, Conn., submarines.

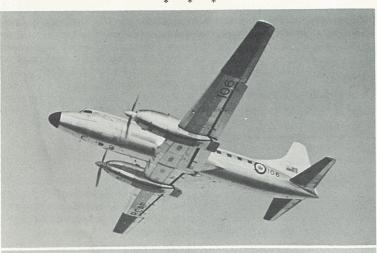
Stromberg-Carlson, of Rochester, N.Y., telecommunications, electronic equipment.

Liquid Carbonic of Chicago, Ill., carbon dioxide producer, in-

dustrial and medical gases.

General Atomic of San Diego, Calif., nuclear research, development, production.

Electro Dynamic of Bayonne, N.J., electric motors, generators.





FIRST FLIGHT—Canadair's first pre-production 540 (a Convair 440 converted to turboprop power) flew Feb. 2 at Montreal.

BALL AND TICE GET ASSIGNMENT TO AID CANADAIR ON 540

SAN DIEGO—Two Convair SD men left last week for Montreal, Canada, to assist Convair's sister division, Canadair Ltd., in its

turboprop program.

Homer Ball (Dept. 135) and Harvey Tice (Dept. 145) will be at the Canadair plant from three to six months to work with the people on the production floor during construction of parts for Canadair's new transports. Ball will assist in the fuselage section while Tice will be assigned to wing fabrication.

Both have had about 15 years experience at Convair SD in their and the third in April. own fields and were chosen as being especially qualified to help with the Canadair 540 and CL-44 program as it moved into produc-

Only other Convair SD man now at Canadair is J. W. Dugan, engineering representative, who has been there since last April. John Ready, who assisted the engineering project office; E. L. Brown, quality control representative; and Ash Bishop, tooling representative, returned home before the first of the year after several months at the Canadian plant.

NEW WIND TUNNEL TO TEST RAMJETS

for future aircraft and missiles, announced.

Canadair Flies '540' Turboprop

pre-production 540 flew for the first time here Feb. 2.

It was in the air for three hours on its maiden flight with William Longhurst, Canadair's chief experimental test pilot, at the controls. Takeoff run was less than 2,000 feet. All-up weight of 48,834 lbs. included full fuel tanks.

This airplane, a Convair model 440 converted to Napier Eland turboprops, will be delivered to the Royal Canadian Air Force on loan. The second converted plane is scheduled to fly next month

STROMBERG BACKS MUSIC BROADCASTS

ROCHESTER — Programs of recorded symphonic music broadcast over the Northeast FM Radio Network now are being sponsored twice weekly by Stromberg-Carlson Division, according to C. Kenneth Juno, advertising manager of the Special Products Division. The programs feature recordings by the Boston "Pops' Orchestra.

SALES APPOINTMENTS

ROCHESTER—Appointment of William T. Lucas as manager 10 Spring Semester of navigation systems sales, and GROTON—A high speed wind Eugene T. Mueller as manager tunnel is being built here by of communications and sonar General Dynamics' Electric Boat sales in the Electronics Division Division to test ramjet engines of Stromberg-Carlson has been

Veterans' Hospital Acquires TRIGA For Medical Research

SAN DIEGO — The U. S. | nal power level of 10 to 100-Veterans Administration Hospital at Omaha, Neb., has acquired the basement of the 11-story, 486a TRIGA reactor for use in medical research, Dr. Frederic de Hoffmann, general manager of General Atomic Division, announced.

Although General Dynamics' versatile and inherently safe TRIGA research reactors have been selected for use on five of the six continents, the TRIGA to be installed in Omaha will be the first to be used specifically for the advancement of medical rebelow-ground model with a nomi- tope service.

kilowatts. It will be installed in bed hospital building.

The hospital is part of a medical center intimately involved in research, teaching and clinical practice, and serves as a teaching affiliate with the University of Nebraska and the Creighton Schools of Medicine. The hospital's Radioisotope Service is engaged in basic and clinical investigations of bio-medical problems. The TRIGA will be under the direct supervision of Dr. search. The reactor will be a Richard Ogborn, chief, radioiso-

Reliability For B-58 a Matter Of Early Design

(Editor's Note - This is the third in a series of brief, nontechnical articles on some aspects of Convair Fort Worth's program to further improve reliability of the B-58 and other products.)

Where does reliability beginwhether it's in an automobile battery . . . a B-58 Hustler supersonic bomber . . . or a hula-hoop?

Start with the ridiculous. The hula-hoop is reliable if it performs the way it's supposed to when you want it to. It's reliable if when you blast off it always goes into orbit around your own private equator.

If it's that reliable, where did that reliability begin? Reliability started when the maker first figured out how he'd make it.

Or take a more serious exam--your automobile battery. It's reliable if, every time you want to start your car, it instantly gives you all the power you need.

Now, you can get batteries guaranteed for 12 months, 18 months, or 24 months-depending upon how much you want to pay. Those periods of reliability were designed into the battery before a factory employee began work.

No doubt a battery could be designed with a 20-year guarantee. But it would not be practical because it would be many times bigger, many times heavier, and many times costlier.

So the battery designer finds out how much reliability the customer wants-and how much he'll

pay for.
"These are the same design questions that must be answered in the engineering technical design section to establish the ini-MONTREAL—Canadair's first tial reliability values of a weapon re-production 540 flew for the system such as the B-58," says R. D. Chase, senior aerophysics group engineer.

Chase is responsible for establishing weapon system reliability values in the planning and predesign phase of all projects at Convair Fort Worth.

Setting reliability values on various parts, components and systems in a weapon system such as the B-58 is a job much like that of an acrobat balanced on one leg of a chair.

If he puts too much weight in one direction or another, he'll go crashing to the floor. A proper balance of reliability among all the various components and systems must be achieved.

So in the B-58 or any other weapon system - just like the hula-hoop—reliability is obtained only by designing it into the product before it is built. Only then will the weapon system give you the same reliability as your car battery - performance when you need it.

Convair-TCU Classes Draw 259 Students

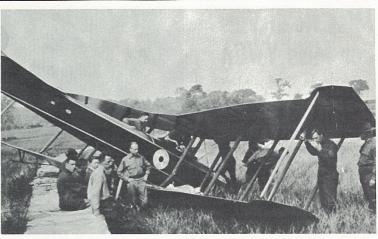
Two hundred and fifty-nine Convair Fort Worth people up for TCU-Convair signed classes during the recent spring semester registration.

In the 10 courses sponsored by the Management Club for its members, 110 registered, while 149 signed for classes sponsored by Convair.

Most popular among Management Club sponsored courses were "Human Relations in Industry," "Mechanics of English," and "Public Speaking."

"Intermediate Algebra" headed the list in enrollment for Convair sponsored classes with 43 students. Next in this group was "College Algebra."

In order to be eligible for a tuition refund on the TCU-Convair courses, students must forward a request 15 days after classes begin to the educational services office. This must be done on form FW-20-11-58 which is available from department clerks.



RECESS-Gallaudet Aviation School trainer is shown at end of a class session. Leo Bourdon, still with Convair, is at left, closest to camera. Below is launching of Gallaudet D-I seaplane on Thames River, Norwich, Conn., in 1916.



Gallaudet Aircraft, a Convair Tributary,' Formed in 1917

(This is the second installment of a continuing history of Convair Division of General Dynamics Corporation. The first, in which the early aircraft development conducted by Edson F. Gallaudet was described, appeared Feb. 4.)

War I, only five American firms had produced ten or more airplanes in their history.

However, when international developments made it clear that large military orders were in the wind, private capital began flowing into the industry. Edson Gallaudet's backing came from J. K. Robinson Jr., president of Ox Fibre Brush Co. of Maryland. The Gallaudet Aircraft Corp. was formed in January, 1917, with Robinson as president, J. G. Crawford, an Ox Fibre executive, as general manager, and Gallaudet as chairman of the board.

A new factory was ready in East Greenwich, R.I. in May of that year. One box car was sufficient to transport the firm's mobile assets from Norwich, Conn.!

Through the balance of that year the company worked on contracts for four Army and two Navy craft. Also in that year the Gallaudet Aviation School was conducted near East Greenwich. Among the students learning to fly was Leo Bourdon, Dept. 99 at San Diego. Bourdon has been with Convair and "tributary" firms for more than 30 years and is Convair's senior citizen in point of continuous service.

Gallaudet's manufacturing pace planes. Production had reached a States.

When the U.S. entered World plane a day when the war ended Nov. 11.

Gallaudet Aircraft's post-war story paralleled that of most other aircraft manufacturers. All looked in vain for a private market. Gallaudet brought out the "Chummy Flyabout," a two-seat sport machine, and the "Liberty Tourist," called the "last word in travel comfort, stability and beauty of outline."

But buyers weren't there. Conversion work on thousands of DH-4 biplanes became the bone on which the industry gnawed. Gallaudet rebuilt four for the Air Service's first flying expedition to Alaska. The planes left Mitchell Field July 15, 1920, arrived at Nome Aug. 25, returned to a big welcome at Mitchell Oct. 25.

One of the company's most profitable contracts was conversion of DH-4s for postal service.

Richardson Named To Aircraft Board

Lawrence B. Richardson, General Dynamics Corporation senior vice president, was named to the 1959 board of directors of the Manufacturers Aircraft Association at its annual meeting last month.

The Association, composed of representatives of major aircraft quickened in January, 1918, upon companies, administers the patent receipt of a Navy order for Cur- | cross-licensing agreement for the tiss HS-2 pontoon-equipped bi- airplane industry in the United



"What was th' real simple way ta celebrate th' New Year that yer wife had figured out for ya?'

Miss Noah Vies For Miss YWCA

Wanda Jo Noah, technical illustrator in service engineering, competed in finals last Thursday night for Miss YWCA for 1959.

Final selection was made Thursday night at a dance in the YWCA ballroom. Outcome of the race was not available at Convairiety press time.

Former student at North Texas State College, Miss Noah is presently enrolled in the TCU night school. She was queen in the 1956-57 Fort Worth Cats' baseball queen contest and was Hood county's 1958 entrant for the annual Miss Wool of Texas contest



WANDA JO NOAH

Is It News?

Is it news? Then grab a telephone and call Convairiety:



REVEALING PLANS—Commissioner E. S. (Stan) Brown, left, of Wing and Masque players reveals plans for Thornton Wilder's farce, "The Matchmaker," which is next on production schedule at the Playhouse, at recent annual meeting.

AIA Group to Visit Plant

Material Handling and the conservation section of industrial engineering will conduct some 45 to 50 aircraft manufacturing people through Convair Fort Worth this Friday.

They will arrive at the plant at 9 a.m. and will remain over for lunch prior to returning to a meeting of the Aircraft Industries Association in Dallas in the afternoon.

These AIA representatives are committee members of the manufacturing conservation committee. They are concerned primarily with economic utilization and handling of the material elements of production and production

Gardeners Will Learn Something About Roses

CRA garden club members will hear Mrs. Glynn Le Phiew speak on "Roses as a Part of Your Landscape and How to Grow Them" at their next meeting scheduled for 7:45 p.m. Feb. 24 at the Garden Center.

A special workshop on flower arranging, which will prelude a big flower show May 23, has been planned for March 31.



BEST DANCERS—Jack Stuteville and Raydene Hands won the best dance award on Channel 8's "Dance Party."

Singleton and Marcia Moore were chosen best personality dancers in the same contest.

Activities Calendar . . .

PERSONALITY PLUS - Andy

Log Book Entries

Promotions

Promotions

Promotions to and within supervision, professional and administrative effective February 2:

Dept. 4: to production change analyst, W. G. Stewart; Dept. 6: to aerophysics group engineer, H. O. Ankenbruck; to design engineer, H. O. Ankenbruck; to design engineer sr., J. B. Frazier, R. D. Stodg-hill; to design specialist, M. Dandois; to group engineer, G. T. Mann; to project propulsion engineer, C. N. Steele.

Dept. 72: to development project liaison man, D. E. Sessions; Dept. 11: to contract representative, J. P. Prindle IV.

Dept. 16: to industrial engineering supervisor, J. F. Holder Jr., J. T. Jenkins Jr.; to project industrial engineer, W. H. Johnston.

Dept. 21: to production change analyst, J. F. Holaday; to spares general supervisor, J. O. Morrow; to spares representative, R. B. Ensminger.

Dept. 24: to engineering illustrations editor, O. E. Overton; Dept. 64: to assistant foreman, W. B. Kozy, P. Wherley; Dept. 82: to tool manufacturing foreman, G. C. Gann.

Dept. 85: to aircraft maintenance specialist, J. F. Taylor; to customer service engineer, J. D. May; Dept. 89: to procurement representative, D. M. Kirk.

Awards

The following received Employee Suggestion awards totaling \$1658.80 for the period ending January 28.

D. J. Holley; Dept. 6, J. R. Moran, S. A. Barron, E. Winterrowd; Dept. 22, V. B. McBride.
Dept. 31, A. C. Clay, O. P. Riney; Dept. 35, D. P. Ogle; Dept. 36, R. L. O'Donley, J. T. Reaves.
Dept. 64, H. C. Pickett; Dept. 73, E. G. Arber; Dept. 74, F. C. Bishop; Dept. 75, P. K. Newport.

Retirements

BRANNON—J. L., Dept. 31. Original hire date November 4, 1946 (FW) retire-ment effective February 9. 1513 Hickory St., Grand Prairie, Texas.

CARROLL — Q., Dept. 65 . Original hire date September 20, 1943 (FW) retirement effective February 23. Star Route, Mineral Wells, Texas.

tirement effective February 6. 2733 Carter Ave., Fort Worth, Texas.

RANDLE—J. H., Dept. 99. Original hire date March 3, 1943 (FW), retirement effective March 4, 1959. 3829 El Campo, Fort Worth, Texas.

RUTHERFORD—W. R. Original hire date September 10, 1946 (FW), retirement effective January 30. 4424 Stegal St., Dallas, Texas.

Births

FORT WORTH

FLETCHER—Cynthia Lynn, daughter, 8 lbs. 12 ozs., born January 11 to Mr. and Mrs. I. W. Fletcher, Dept. 22-4.

DAINGERFIELD

BLALOCK — Lisa Diane, daughter, 7 lbs. ½ oz., born December 7, 1958 to Mr. and Mrs. C. J. Blalock, Dept. 2.

CHILDREE—Christine Ellen, daughter, 7 lbs. 2 ozs., born January 14 to Mr. and Mrs. H. T. Childree, Dept. 2.

NICHOLS—Ann, daughter, 7 lbs. 8 ozs., born January 21 to Mr. and Mrs. J. B. Nichols, Dept. 2.

Deaths

TRIPP—F.E., Dept. 25, died February 10. Survivors include his wife, one daughter, one stepdaughter, two sons, two brothers, and two granddaughters.

Cards of Thanks

Our sincere thanks to the Dept. 30 employees who sent the flowers upon the occasion of the birth of our son.

Mr. and Mrs. D. R. Lancaster

Lost and Found

LOST — Blue-green Parker 51 fountain pen with stainless steel top. Lost vicinity of Field Operations. Reward. Contact Chuck Rohmer, Dept. 7-2, ext. 2909.

FOUND — Ladies yellow gold wrist watch, in cafeteria parking lot. Owner may claim at employee services office.

COLLIER—G. E., Dept. 36. Original ire date September 17, 1943 (FW), remay claim at employee services office.

Convairiety

First Place Winner International Council of Industrial Editors

International Council of Industrial Editors

Founded Sept. 1, 1948. Published in six editions (Fort Worth-Daingerfield, San Diego, Pomona, Astronautics, Mail Edition and Antelope Valley-Holloman) by Convair Industrial Relations, General Offices, San Diego, Calif., Logan Jenkins, editor. Approximate current total circulation, over 65,000. News items and letters to the editor are solicited, but no advertising can be accepted.

SD Editorial Offices, Building 32, Plant 1, ext. 1071. Staff: Grayce Fath, Helen Pemberton, Fred Bettinger.

FW Editorial Offices, Col. 69C. Ext. 2961. Mailing Address: Convairiety, Convair, Fort Worth, Texas. Telephone PE 8-7311. Staff: Bob Vollmer, Fort Worth editor; Pat Baker, Mary Beck.

Astronautics Editorial Offices, Bldg. 2, new plant, ext. 1154. Staff: Bryan Weickersheimmer, Astronautics editor.

Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8, Staff: James Combs Jr., Pomona editor; Dorothy Keller.

Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.

DRAMA: rehearsal for "The Match-maker" 7:30-10 p.m., CRA Playhouse.
RANCH ACTIVITY: calf roping, 8-10 p.m., ranch area, CRA.

Convair Recreation Association events in the next two weeks are listed below. Read-ers interested may clip this column and save it for reference until next issue of Convairiety. For more information, phone CRA office, ext. 2771 at Fort Worth, ext. 424 at Daingerfield.

Tonight, February 18

ASTRONOMY: work parties, 7:00 p.m. CRA.

CRA.

BASKETBALL: league play, 7-10 p.m.,
R. D. Evans Recreation Building.
BOATING: meeting, 7:30 p.m., CRA.
BRIDGE: duplicate session, 8:30 a.m.,

CAMERA: black and white contest, 7:30

Fort Worth

Thursday, February 19 ARCHERY: shoot, 7-10 p.m., archery

ARCHERY: shoot, range, CRA.
ART: class, 7:30 p.m., FW Art Center.
BADMINTON: play, 7:30 - 10 p.m.,
Stripling Jr. High Gym.
RADIO: operating night, 7:30 p.m.,

SQUARE DANCING: classes: beginners 7 p.m.; advanced 8:15 p.m., CRA.

Friday, February 20

BRIDGE: class, 6:30 p.m.; duplicate session 7:45 p.m., CRA.
DRAMA: rehearsal for "The Matchmaker" 7:30-10 p.m., CRA Playhouse.
RANCH ACTIVITY: cutting 6-8 p.m.; roping 8-10 p.m., ranch area, CRA. Saturday, February 21 ASTRONOMY: work parties, 9:30 a.m. 3 p.m., CRA.

RANCH ACTIVITY: advanced riding lessons, 2 p.m.; cutting 4-6 p.m.; roping 6-8 p.m., ranch area, CRA.

Monday, February 23 Monday, February 23

DRAMA: rehearsal for "The Matchmaker" 7:30-10 p.m., CRA Playhouse.

MOVIE: "Wake of the Red Witch" with John Wayne, Gail Russell. Shown lunch period, 50-foot aisle.

VOLLEYBALL: league play, 6:45 p.m., Southside Recreation Building.

Tuesday, February 24 CAMERA: photography class, 7-9 p.m., GARDEN CLUB: meeting 7:45 p.m., Garden Center. RANCH ACTIVITY: cutting, 7-9 p.m., ranch area, CRA. RADIO: business meeting, 7:30 p.m., council room, CRA. TABLE TENNIS: play, 7:30 p.m., CRA.

Wednesday, February 25

ASTRONOMY: work parties, 7 p.m., CRA. BRIDGE: duplicate session, 9:30 a.m., CRA.

CRA.

DRAMA: rehearsal for "The Match-maker" 7:30-10 p.m., CRA Playhouse.

RANCH ACTIVITY: calf roping, 8-10 p.m., ranch area, CRA.

WOMEN'S ACTIVITIES: book review, 10 a.m., CRA.

Thursday, February 26

ARCHERY: shoot, 7-10 p.m., archery range, CRA.

ART: class, 7:30 p.m., FW Art Center.

BADMINTON: play, 7:30 - 10 p.m.,

Stripling Jr. High Gym.

RADIO: operating night, 7:30 p.m., SQUARE DANCING: classes: beginners 7 p.m.; advanced 8:15 p.m., CRA.

Friday, February 27

BRIDGE: class, 6:30 p.m.; duplicate session 7:45 p.m., CRA. session 7:45 p.m., CRA.

DRAMA: rehearsal for "The Matchmaker" 7:30-10 p.m., CRA Playhouse.

RANCH ACTIVITY: cutting 6-8 p.m., roping 8-10 p.m., ranch area, CRA.

Saturday, February 28 ASTRONOMY: work parties, 9:30 a.m. 3 p.m., CRA.

Sunday, March 1 RANCH ACTIVITY: advanced riding lessons, 2 p.m., cutting 4-6 p.m.; roping 6-8 p.m., ranch area, CRA.

Monday, March 2

DRAMA: rehearsal for "The Match-maker" 7:30-10 p.m., CRA Playhouse.
MOVIE: "Man with a Million" with
Gregory Peck. Shown lunch period, 50foot aisle. VOLLEYBALL: league play, 6:45 p.m. Southside Recreation Building.

Tuesday, March 3

MODEL AIRPLANE: control line meeting, 8 p.m., CRA.
RANCH ACTIVITY: cutting, 7-9 p.m., ranch area, CRA.
STAMP: meeting, 8 p.m., CRA.
TABLE TENNIS: tournament, 7:30 p.m.,

For 'Matchmaker' at Playhouse announcement of all roles will be made in the next issue.

Rehearsals Get in High Gear

maker," hit Broadway farce being produced by Wing and

ing produced by Wing and Masque players, got under way Monday at the CRA Playhouse.

The group is rehearsing every

Monday, Wednesday and Friday from 7:30-10 p.m. at the Play-house at 2966 Park Hill Drive.

Production dates for the Thorn-

ton Wilder comedy have been set for Mar. 19, 20, 21, 26, 27 and

28, according to E. S. (Stan)

Brown, commissioner who is di-

Since complete casting was not

CRA's teenage dancers brought

Jack Stuteville and Raydene

Hands danced well enough to win the best dancers' award. The

best personality dance honors went to Andy Singleton and

The entire advanced teenage

dance class will appear on "Teenage Downbeat" on WBAP-TV

Approximately 150 teenagers

have classes at CRA on Saturday

mornings with Brice Evans in-

home top honors from a recent WFAA-TV "Dance Party" con-

ready by Convairiety press time,

Teenage Dancers Win

In Dallas TV Contest

recting the show.

test in Dallas.

Marcia Moore.

Feb. 23 at 5 p.m.

structing.

At the recent annual meeting of the Wing and Masque, Brown explained production techniques for this third play of the season. He said that sets will be kept to a minimum for the period drama. This way he said there would be less confusion, and the production would have a better chance of standing on the merits of good acting.

Brown also previewed plans for the summer which included a workshop for both the youngsters and adults. The workshop for the young people will be to develop poise, ability to take direction and dramatic staging.

John Taylor, chairman of the Wing and Masque board of governors, said that the adult workshop would be more on the order of technique classes.

A general invitation has been extended to all "hams" or "would be's" intrigued by the glamour of backstage. Brown says willing hands are needed for scenery, props, lights, and make-up.

Dr. Wesley to Talk On Aspects of Nickel

Dr. W. A. Wesley, chief of research at the International Nickel Co., will talk on "Aspects of Nickel in Plating and Coating for High Temperature Application" at tonight's 6:30 p.m. meeting of the American Electroplaters' Society in the Zodiac Room of the Lennox Hotel in Grand

Social hour starts at 6:30 p.m., dinner at 7:30 p.m. and Dr. Wesley's talk at 8 p.m.

Those interested in attending are asked to contact M. E. Browning at ext. 8-270 or 8-276.

Women to Hear Book Review by Mrs. Mayo

The morning session of the CRA women's group will hear Mrs. M. J. Mayo review "Mrs. 'Arris Goes to Paris" at their next meeting set for Feb. 25 at 10 a.m. in the Council Room of the CRA Building.

The Passing Years

FORT WORTH

The following service emblems were due during the period February 16 through February 28.

February 28.

Fifteen-year: Dept. 7, F. W. Buehler Jr.; Dept. 9, W. D. Strong; Dept. 14, H. H. Brady; Dept. 15, C. J. Uftring.

Dept. 22, J. E. Balch, G. F. Cross; Dept. 24, E. Paul; Dept. 25, E. Boyd, H. L. Reed, C. O. Rhodes, C. Ruffin.

Dept. 27, F. L. Manis; Dept. 31, J. E. McDowell; Dept. 32, L. P. Sandlin; Dept. 36, E. Barnes.
Dept. 46, A. L. Goode, L. B. Smith; Dept. 54, W. F. Young; Dept. 55, V. H. Harry, V. W. Prince; Dept. 59, A. E. Chamberlin.

Chamberlin.

Dept. 74, V. B. Coalson; Dept. 75, H. W. Gaston; Dept. 82, E. S. Carnes, E. J. Dunaway Jr., C. E. Reddy.

Ten-year: Dept. 4, V. V. Wooldridge; Dept. 6, J. W. Belew, D. J. Dush, L. G. Graham, K. L. Hunt, J. A. Kerr, C. R. Sierra Jr.

Dept. 7, A. H. Frazer Jr.; Dept. 9, F. N. Faulkner; Dept. 15, W. K. Fullerton; Dept. 20, E. L. Bruedigam, D. T. Cook, R. F. McCoy, T. G. Reaves.

Dept. 21. J. C. Rice; Dept. 22, D. W. Batts, R. B. Cogburn, Z. E. Self, J. W. Shelton, K. I. Stirmon, R. M. Turner.

Dept. 24, S. F. Dutton, B. B. Michael, J. P. Watkins; Dept. 27, C. A. Berry, B. M. Crawford, R. F. Eggenberger, J. W. Herron, H. D. Lockaby, L. G. Porter. Dept. 28, W. W. Little; Dept. 32, A. L. Chandler, G. W. Jetton, J. R. Johns, R. D. Ling, P. L. Peters, J. W. Shivers, W. L. Yaws.

Dept. 33, C. D. Denson, C. R. Hamilton, D. S. Harris, J. B. Parks, R. S. Pruitt; Dept. 34, C. W. Tunnell.

Dept. 36, W. W. Goochey, P. M. Mc-Intire; Dept. 73, M. M. Feemster; Dept. 75, W. B. Barnes; Dept. 81, A. W. Bur-ton Jr., J. W. Dominy; Dept. 85, H. A. Dunlavy.

DAINGERFIELD

Ten-year: Dept. 2, R. N. Bean, Montine Martin; Dept. 3, B. Chastain.

Aerial Goliath Is Memorialized

Convair's aerial goliath, the XC-99, was enshrined in ceremonies on a plot of ground near Kelly AFB in San Antonio this month with the pomp and pageantry of an Air Force band and drill team and civic digni-

The Air Force donated the plane to the Disabled American Veterans of Texas who were in charge of festivities along with the San Antonio Chamber of Commerce.

Convair Fort Worth's Loyd L. Turner, who was on hand at the birth of the world's largest landbased plane in San Diego on Nov. 23, 1947, was also there for administration of the last rites.

Convair People To Tour Schools

Thirty-five members of supervision at Convair Fort Worth will visit three public schools in a chartered bus during Public Schools Week, March 2-6.

The visit, which will include stops at three different schools, be made on Thursday,

Loyd L. Turner, special assistant to the division manager, is in charge of the visit.

This marks the eighth year that Convair has supported Public Schools Week in Fort Worth by sending a bus load of its supervisors to visit at least three

New Photography Class Runs Through May 19; **Registration Open Now**

A new photography class, under the direction of Bill Findley, started last night at CRA and will meet each Tuesday from 7-9 p.m., through May 19.

those interested may contact Commissioner M. R. Rogers or

The camera club's black and white contest winners in Class A for January were M. R. Rogers, first and second; Edith Eggleston, third; and Claude Stone, fourth. In Class B, Bob Barnes, first; Gale Kendrick, second; and Lib Glazner, third.

Color winners were Lloyd Douglas, Barnes, George Lockhart and Mrs. Eggleston in that

Bridge Tourney Set For March 13, 14, 15

Bridge players are boning up on card strategy in preparation for the annual plantwide CRA bridge tourney slated for March 13, 14 and 15.

Commissioner G. P. Anderson hopes to complete plans soon. Details will be announced in Convairiety.



PRAIRIE SCHOONER—Convair Fort Worth's Prairie Schooner drew lots of attention at recent Fort Worth Fat Stock Show parade. Pioneer CRA family aboard, left to right, is Red Calvert, Debbie Cockrell and Mrs. M. B. Bratcher.

Seven AF Officers **Awarded Certificates** For F-102 Check-Out

Seven Carswell AFB officers at Fort Worth were awarded F-102 check-out pins and certificates by Joe McQuay, Convair SD field service representative, nights. One will be tomorrow in a brief ceremony recently at B-58 Test Force headquarters.

The presentation took place in the office of Col. D. M. Jones, B-58 Test Force commander.

Those receiving certificates other than Colonel Jones included Col. R. E. Evans, Lt. Col. Floyd Finberg, Maj. H. J. Deutschendorf, Maj. Ernst Jahnke, Maj. Lee Amos and Capt. Vernon Kummel.

"These officers are probably the first ever to receive the

the first ever to receive the F-102 certificates for having ac-

Fee for the class is \$5, and award is normally given for a lose interested may contact solo flight in the aircraft. He said because there weren't any F-102's at Carswell, the TF-102 was substituted.

Carswell B-58 Test Force uses the TF-102 as a chase and transition plane in working with the supersonic B-58 Hustler.

Air Force authorities that pilots also fly the TF-102 in preparation for B-58 flight.

Roughly, 14 pilots have been checked-out on the TF thus far at Carswell. McQuay says he will continue to award the certificates as that number grows.

CRA Calls for Second Bids on Shelter House

CRA officials announced this week that they are still accepting bids for construction of the newly planned ranch shelter to be erected at the ranch area.

This is the second "go round"



CITY CHAMPS-Pictured here are the CRA Rockets who walked away with everything in Fort Worth city league basketball this season. They are, top row, left to right, Jim Lewis, LaVerne Lee, John Purdue, Manager Frank Javarone, Frank Bonner and Bill Bear. Bottom row, Byron Wilborn, Darryl Frank, Bennie Freeman and Monty Woodrull.

Radio Club Members Will Have Meeting

CRA radio club members will have a business meeting at 7:30 p.m. Feb. 24 in the Council Room of the CRA building.

Commissioner Max Schelper has announced two operating at 7:30 p.m., and the other has been set for Feb. 26. The operating nights meetings are in the CRA radio room.

take the law into their own hands after a quick trial set up by Judge Roy Bean. The poor guy convicted was none other than Tom Dooley himself—played by Jerry Ratliff. Convair Cowboys, Cowgirls Put **Up Boots After Last Stock Show**

TOM DOOLEY—This group of Convair Fort Worth hombres

along the trails leading to Convair Fort Worth as part-time cowboys and cowgirls hang up boots and saddles after another year's participation in the an-Southwestern Exposition nual and Fat Stock Show.

Over 40 CRA ranch riders took part in both the parade and rodeo

Dust is beginning to settle grand entry alongside such west-ong the trails leading to Con-ern heroes as TV star Dale Rob-ertson of "Tales of Wells Fargo" fame.

One of Convair's floats in the Stock Show parade provoked perhaps more comment than any other. This float depicted "Judge Roy Bean's Last Court" with Tom Dooley on trial. Music from the popular "Tom Dooley" ballad blared through the streets as members of the CRA drama group enacted the situation.

Other CRA floats included an old Prairie Schooner with a typical pioneer family - including many youngsters in the back. The other float was an oxenpowered chuckwagon.

CRA rodeo grand entry riders were decked out with specially made red saddle blankets. Convair riders were given recognition during the show's last weekend performances. They participated along with other riding clubs active in this area.

Rhome Independents

Take Volleyball Honors

Both men and women's teams

of the Rhome Independent vol-

levball teams took top honors

in the first half of CRA league



tually been checked out on the TF-102," McQuay said. According to the SD field service representative, the F-102 Fifty More Youngsters Needed For CRA Baseball Clinic Plans

are needed in order for CRA to go through with plans for the boys' spring baseball clinic with a March 1 deadline fast aproaching.

"If we don't get at least 50 more signed up before March 1, we're not going to be able to offer the clinic at all," commented Charlene (Kelly) Brown of the CRA office.

The clinic is to be offered to boys 10 through 15 years old and will be under the supervision of the CRA junior baseball ac-

Providing enough young peo- and managers tonig ple sign up, the clinic will get at the CRA building.

Around 50 more youngsters under way April 4 and will be meeting each Saturday through May 23. To climax the end of it, special all star games have been planned on June 2.

> Scouts from major league baseball will act as instructors and plan to run the boys through everything from fielding to base running.

> Fee for the clinic is \$5, and the fee must accompany applications which are available at the CRA office.

There will be a junior baseball meeting for prospective coaches and managers tonight at 7 p.m.

vollevball. In the men's league, the Rhome team season standings stood 14 wins and one loss. Rhome women leaguers came

out on top of the other three teams entered. River Oaks, Eagle Mountain and the Goofers came in along that order.

Second in the men's league was Eagle Mountain with 12 wins and 3 losses. Following in their respective order were the Hustlers, Carswell, Allstars and

CRA Rockets Take Victory of bidding. A decision was not made after initial bidding. From Tuesday Tooling Cagers

etball champs ets-took a 48 to 24 win over the CRA Tooling cagers in an exposition game last week at the Northside Recreation Building.

The Rockets, an independent group of Convair Fort Worth basketeers, are managed by

Free Discount Ducats Available for Derby

Convair Fort Worth people are picking up free special discount tickets for the Texas Skating Derby which opens at the North Side Coliseum tomorrow night at 8 p.m.

Tickets are available at the CRA office and are being given away on a first come, first served basis.

The tickets are good for two separate discounts. They're good for a \$1 discount on all reserved and box seats which are normally \$2.50 and \$2, and they're good for a 50 cent discount on general admission.

Fort Worth City League bas- Frank Javarone and coached by Boat Club People Will Philadelphia Generals.

> They had planned to compete for a berth in state playoffs, but the tournament was postponed, Javarone said.

"We were quite happy over our win from Tooling," Darryl Frank, Rockets' forward and former college cager from Minnesota, said, 'especially since they won second half of Tuesday night CRA league ball."

Javarone said that he is in hopes that the Convair Fort Worth people will give as much support as possible whenever the Rockets get into the state playoff tourney.

Tooling cagers once more latched onto the Tuesday night league championship, as CRA Making March Plans basketball season ended for them last night.

Winner for the second half of the Wednesday night league will be determined tonight at 8 p.m. when Flight Test goes against the Engineers at the R. D. Evans Gym.

Attend FW Boating Show

Instead of their regular monthly meeting, CRA boat clubbers will dock at the Fort Worth Boat and Sport Show tonight through Sunday at Will Rogers Exhibit Building on Crestline Road.

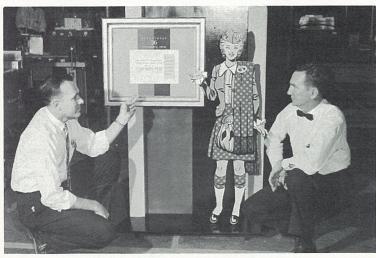
Commissioner Jack Frost said that free tickets for the show can be obtained from the CRA office or from one of the boat club officers.

Frost said attendance at the Boat and Sport Show would take the place of this month's meet-

Golf Commissioner

L. H. Armstrong, golf commissioner, is making plans for the CRA golf season scheduled to get going sometime next month.

Tentative plans are being made for a tournament, so CRA golfers should start digging out clubs and golf balls, Armstrong said.



NEW AWARD-J. C. Steppick, left, Dept. 36 foreman of special projects, presents first monthly Miss Thrifty merit award to M. E. Goolsby, assistant foreman. New award is being presented to Dept. 36 group that shows most progress in cost reduction each month.

Frank Davis Will Give Annual Report to Management Club

first appearance before the Convair Management Club in his new capacity as Convair Fort Worth Division manager in March.

At the March meeting, he will give the division manager's annual report to the club member-

A second highlight of the meeting will be the first announcement of the winner of the President's Award for cost improvement performance in 1958.

Although the winner will be announced, official presentation of the President's Award will not be made until the October meeting. At that time, the club hopes to be honored with the presence of Frank Pace Jr., president of General Dynamics Corporation; J. V. Naish, president of Convair, and August C. Esenwein, Convair executive vice president.

March meeting special guests of the club will be the nine contenders for the award: E. E. Black, H. E. Cleveland, J. W. Doggett, C. G. Gilliam, J. M. Jackson, W. E. Ochiltree, T. F. Paniszczyn, W. B. Watkins and W. M. Young. One of this group will be named top winner.

Each of the nine, however, will be presented a special award—the first new CIP tie bars and cuff links which will be awarded

FW Post Office In New Home

Convair Fort Worth post office

If you're planning to mail a letter now, you'll have to take a trip "south of the boiler" to make your deposit, since the communications section is adjacent to the boiler room, opposite Col. 73A.

Reason for the move is to provide additional office space in the administration building.

Said John H. Howell, communications assistant supervisor: "The additional space helps famail out a lot sooner. Now we're not getting tangled up just before the 4:45 p.m. rush."

R. F. Norman 1 out a lot sooner. Now we're cility is necessary because the model B-58 will be on a tower of 20 feet.

R. E. Norman, who has been in the post office game at Convair going on 17 years, said: "We've never had it so good."

Frank W. Davis will make his in the future to each salaried man when he has scored \$25,000 in CIP savings, and to each hourly employee when he has scored \$10,000 in ES savings.

Arrangements for the March meeting originally were assigned to industrial engineering department. Due to the change in plans, however, the meeting is now being handled by engineering department. H. W. Hinckley and W. C. De Lorme are coordinating

FW Club to Convene Tonight at Texas

Convair Fort Worth Management Club members will gather tonight (Feb. 18) at the Crystal Ballroom of Hotel Texas where Jeff H. Williams will tell them to "Worry-But Don't Go Nuts."

Social hour starts at 5:30 p.m., and dinner will be served at

Williams, a past director of Rotary International, has spoken in every state in the union as well as overseas.

Two-Story Antenna Facility Constructed Near Hangar Bldg.

Construction is under way on a new two-story antenna test facility atop the south corner of Convair Fort Worth's experimental hangar building.

E. E. Murphy, group engineer in electrical tests, said antenna radiation patterns and impedance will be recorded on scale models or mockups. The scale of the frequency of the antenna, Murphy added.

"Purpose is to evaluate antenna design and its location on the airplane," he said. Antennas, of course, are already on B-58s in flight test status, but other types will be required by new systems 64, Group 4; and Dept. 58, Group going on later aircraft.

Transmitting equipment will be located on the facility's second floor, and on the first floor will be recording apparatus.



MAIL FLOW—Convair Fort Worth's mail room has been moved south of the boiler" to spacious new quarters adjacent to Col. 73A. With new set-up, mail can now get out more rapidly.

Here's Tip on How YOU Can **Reduce Costs**

What can YOU do to reduce costs in handling parts, materials and equipment?

Regardless of your job, it boils down to this:

Use the right methods. (If you don't know what is "right," check with your supervisor.) And-

Use EXTREME CARE.

Some specific suggestions for employees handling parts, material and equipment: 1. Use live skids to move ma-

terial in work area. 2. Wrap parts to be moved to

protect them from damage. 3. Use brown plastic

pans" for moving small parts.
4. Put "high dollar" stickers
on items valued at \$1,000 and

5. Use "high-dollar containers" for handling and storing items costing \$1,000 and up.

6. Save space by storing material and equipment in racks provided.

7. Use the traffic department system for material handling.

Auto License Sale to Start

Convair Fort Worth people may obtain 1959 automobile licenses Feb. 23, 24 and 25 in the company cafeteria from 11 a.m. to 12:55 and from 3 to 4 p.m.

Mark Hutsell, representative from the county tax assessor's office, will be on hand to issue new tags.

Prospective buyers must have their car titles and license receipts with them. Personal checks on local banks will be acceptable.

Those desiring truck and trailer licenses are asked to contact Jim LeSueur ahead of time in employee services at ext. 2841 or

LeSueur has asked that Convair people plan to purchase their car tags in accordance with the following: Feb. 23, those with last names starting with through H; Feb. 24, I through O; and Feb. 25, P through Z.

Dept. 48 Wins Safety Honor

(Continued from Page 1) Each quarter, awards are presented to departments within each group with the highest nummodel used will depend upon the ber of safety points. The group totaling the most points throughout the quarter gets the plantwide banner, as was the case with Group 3 and Dept. 48.

Other quarterly winners within their groups included Dept. 73, Group 1; Dept. 33, Group 2; Dept.

A gift of \$150 to the YMCA's 1959 Friend-of-Youth drive was announced this week by the Convair Fort Worth Management Club.

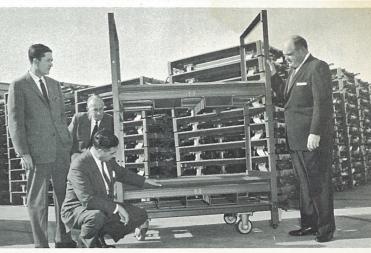
The \$150 will help provide swimming, football, baseball, soccer, camping experience, club meetings, counseling and physical training sessions for Tarrant County youth.

Fix-A-Toy Program Gives Aid to 5,841

Final figures on Convair Fort Worth's annual "Operation: Fix-A-Toy" program released this week show that 5,841 people of 1,035 families received a helping hand.

Of the 5,841, 4,158 were youngsters.

Cash contributed by employees in individual departments to aid adopted families (in addition to toys, used clothing and food contributed) totaled \$15,224.96.



TIRE CARRIER-Convair Fort Worth material handling team members inspect new rubber-tired carrier designed to haul B-58 tires. One rack carries full ship set of 18 tires. Left to right: H. C. Jones, Frank Pieper, S. E. G. Hillman and S. E. Keith.

Economy Campaign Takes Aim At Costs of Material Handling

(Continued from Page 1) trucks to move them from one location to another.

(Dead skids have been used almost exclusively for the 16-plus years Convair Fort Worth has been operating—but now all are being replaced by the more efficient live skids).

This week's new equipment is part of an extensive program kicked-off two years ago at direction of August C. Esenwein, then Convair FW manager and now Convair executive vice president. In all, equipment valued at upward of a million dollars has been added.

"We're trying to see that each employee involved is provided the proper equipment to make his material handling task both easier and more efficient," explained Davis.

"We have already made good progress. The dollar cost of manhours required for material handling in 1958 was 21 per cent below the cost in 1957. But with 1959's task of handling more and more items which cost even more, we're obligated to continue to give this matter a high priority."

Said Frank Pieper, industrial engineering supervisor, material our handling-and reduces our tions, electronics and supply-

use the right methods and exercise extreme care while they do

That is the theme this week of the plantwide "Give Thrift a Lift" effort in which Miss Thrifty appears once again.

The word will be carried throughout the plant to all employees via Convairiety, in the Supervisory Newsletter, in the large display case between the factory and administration building offices, and on hundreds of

New Program Urged For AF Reservists

Convair Fort Worth's obligated reservists are urged by Maj. Bob Devine to get in on an Air Force Reserve program which does not require the annual two weeks' active duty.

Those interested may get further information at the Air Force Reserve Center, 2808 Crestline Road, or by calling ED-6-0743.

Major Devine, administrative officer for the center, said almost any airman can be signed up in the Part II (for pay) slots.

handling and conservation section: "We're giving employees all are specialists in fields like Only former officers needed the help we can. But it improves weather, intelligence, communicacosts—only to the extent that em- and these are non-pay positions.

New Steel Tank Constructed For Magnesium-Thorium Etch

Convair Fort Worth may be in | ter, only more so. for a seven-year "etch" in the southwest corner of the reservation — but there's no rash in-

The new operation is etching in Convair Fort Worth's new magnesium - thorium - stainless steel tank structure.

The structure, valued at nearly \$100,000, is making it possible for the company to etch its own mag-thor and stainless steel for B-58 production.

Prior to construction of the new tanks, almost all of Convair's mag-thor and stainless steel etching was done by an outside contractor, according to Al Jones of process control.

Designed by R. E. (Bob)

Vaughn of Dept. 25-2, the new structure contains four large tanks. They are eight feet deep, three to five feet wide and 16 feet long.

One tank is used for mag-thor etching, one for stainless steel etching, and the other two for rinse and other treatment.

Total capacity of the stainless steel etching tank is 3,200 gallons, 2,000 of which is acid and the rest water. The mag-thor tank holds 7,500 gallons. Jones says it takes about \$2,237

to charge the stainless steel etching tank, and something like \$5,-500 to make sure the mag-thor tank is charged.

The tanks are lined with an acid repellent material with a brick lining on the outside.

Fumes from the process pass through a "fume scrubber" something like the micronite fil- Stubbs Jr.

Helping Vaughn on the design was W. W. Goss of Dept. 25-2. Bill Wilson was industrial engineer on the project.



ETCH TO COME—Bill Wilson of industrial engineering peers into Convair Fort Worth's newly constructed mag-thor etching system south of the main plant. New construction was designed by Bob Vaughn, will be operated by L. B.



Fort Worth and Daingerfield

EDITION

Fort Worth news office: ext. 2961; Daingerfield news office: ext. 424

SAN DIEGO, POMONA AND ANTELOPE VALLEY, CALIFORNIA

DAINGERFIELD AND FORT WORTH, TEXAS



HIGH LEVEL WORK—High against B-36 vertical fin in bosun's chair held by crane are T. V. Wright and J. H. McGregor of Dept. 74. They make up part of 100-man crew which gave B-36 "spit and polish" look before going on permanent display at Amon Carter Field.

Quality Work

Hundred B-36 Veterans Refurbish Last Plane

Convair Fort Worth people with soft spots in their hearts Fort Worth finishing department for the mammoth aircraft they lived with so long are putting in as much as 12 hours a day each weekend—on their own time, without pay—to make the last of the species one of the most beau-

Terminal is undergoing a thorough house cleaning and will soon be in tip-top shape for public

A crew of approximately 100 ex-B-36 veterans—people who worked on most of the 383 planes built—have been painting, scrubbing and making repairs on the big bomber.

The clean-up started two weekends ago with a Saturday bath. Convair people used hoses from the Fort Worth Air Terminal Fire Department to clean the aircraft prior to painting and other cals for the B-36 maintenance

Volunteers from the Convair have been in full force with spray guns to touch up both inside and

"It won't be long now until the plane's ready for the public," said B. R. Main, general foretiful B-36 bombers in history.

The newly enshrined B-36 monument at Amon Carter Air

The rejuvenation of the B-36 man of traffic who has been on

The rejuvenation of the B-36 is part of a plan worked out by the Convair Fort Worth Management Club and the City of Fort Worth. Sam Keith, chief of traffic, is coordinating work.

The work parties commence around 8 a.m. on Saturday mornings and last until late afternoon and early evening.

The Management Club has arranged for noontime meals for the volunteers.

Pennsalt Chemicals Corp. of Dallas is furnishing free chemitask for a full year.

Care of Blueprints Emphasized As FW Continues War on Costs

"Blueprints build our future | would make a print of standard gram. . . . Handle them with care— width 605 miles long! That protect them from damage—and would reach from Fort Worth to return them as soon as pos- about Albuquerque, N. M.

That's the essence of the word going throughout Convair Fort Worth this week in Convair's continuing war on all fronts to drive down costs in the B-58 and other programs.

And blueprints, while only paper, make up a sizeable investment in themselves. There's a total of more than 2,350,000 blueprints in booths and checked out to employees!

"This represents an investment of almost a million dollars-for that's what it cost just to reproduce and place these blueprints in the blueprint booths," said R. E. Poling, assistant chief of manufacturing control.

"We've made good progress in handling blueprints in the past year. And with the continued help of all concerned, we'll do even better in 1959."

Blueprints issued to employees in a year (about 5,000 a day)

Prints placed in the plant's 22 blueprint booths in a year, a total of almost 1,200,000, would

(Continued on Page 8)



CRA Will Hide 12,000 Eggs

Twelve thousand eggs will go into hiding at the annual Convair Recreation Association Easter egg hunt slated for 2 p.m. on March 28 at CRA.

Hundreds, possibly thousands, of Convair youngsters will search for some 2,000 hen eggs and 10,-000 candy eggs tinted all the colors of the rainbow.

Special prize eggs will be hidden along with the others. These will be marked and will be redeemable for prizes at the climax of the hunt.

Wives of CRA Council members and members of the women's club will be in charge of egg coloring. Those interested in helping are asked to contact Winnie Leonard, co-commissioner of the women's club.

Roy Jarl of employee services heads the egg hiding activities. He says that he needs at least 50 people to help. He can be contacted at ext. 2851.

Earns Awards

received special awards at a luncheon given recently by Convair Fort Worth's J. Y. McClure, manager of quality control.

Awards presented by McClure were to provide recognition for those who have performed outstanding service in helping to reduce cost and improve quality in the B-58 program.

McClure made special mention of progress in weapon system quality and reliability, flight test activities, and total product cost reduction.

Those receiving awards were Bill Bierwirth, who set up use of fluoroscope in inspection of brazed stainless steel construction; S. C. Butler, who maintained efficiency after facilities activities were reduced to a one man operation last year; and Ernie Cartwright, who significantly contributed to quality improvement and cost reduction in B-58 assembly.

Also, Lon Clark, instrumental in obtaining approval on fabrication of phenolic laminates using the vacuum bag system; C. W. Mauldin, who contributed to flight test operations; and J. B. McGaughy, major contributor in methods of testing the fire control system installed on F-102 aircraft during the Mod-Iran pro-

Others were George Rader, inand scrap in bonding and braz-(Continued on Page 8)

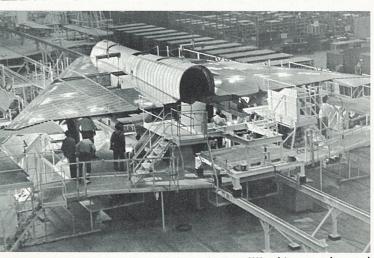
FW FOLK URGED TO PLAY IT SAFE

A plea for more careful driving on the part of Convair Fort Worth people was issued this week by F. R. Temple, chief safety engineer.

Temple said that in the first 45 days of the new year, 19 Tarrant County residents were killed in traffic accidents. Ten of these were within Fort Worth city limits.

Care, reason, intelligence, and courtesy are all "musts" for the automobile driver today, Temple added.

"Our people made an improvement in Convair Fort Worth traffic fatalaties during 1958. Last year we had five fatalities compared to nine the previous year," he said.



ELEVATED-Pictured here is Convair Fort Worth's new elevated assembly line with first B-58 en route to first of major mating stations. Here wing and fuselage section is moved into station.

Elevated Assembly Line Put in Operation To Speed B-58 Work

They're "up in the air" now at | stallation and removal for each Convair Fort Worth with a new elevated assembly line which will save both time and money.

The B-58 Hustler production program marked another milestone when it started the first trip down the new line before the eyes of assembly people and Convair movie crewmen who were recording the event on film.

"The elevated assembly line has many improvements over the earlier line," said W. H. Tidwell, superintendent of assembly and final assembly.

According to Tidwell, airplanes moving on elevated rails nine feet above the factory floor through all assembly stations eliminate the jacking and shoring of each ship when the line is moved.

Now the airplanes move down the line without the removable stress panels. This eliminates in-

DATES FOR SMU EXAMS ANNOUNCED

Examination dates for students seeking admission to graduate engineering study at Southern Methodist University this summer were announced this week.

H. C. Anderson, Convair Fort Worth assistant supervisor of educational services, said examinations will be held at 8:30 a.m. on April 11 and April 25 at SMU. Deadline for registering for the first test is April 4, for the second, April 18.

Successful completion of the with an official transcript of be revealed. credits by April 25. Additional from Anderson.

Stationary work platforms are now a part of the new line. This does away with stand moving.

New nose and tail work stands ride the elevated line with the plane. They have protective storage cabinets for removable panels and leading edges.

Stock areas more convenient for the assembly line people are located adjacent to each station.

Frank Davis To Review FW **Achievements**

Where we've been, where we are-and where we're going . .

That's the theme of the annual division manager's message to be given by Frank W. Davis at the Convair Management Club meeting March 19.

The message traditionally presents top management's appraisal of Convair Fort Worth's past, present and future.

The dinner meeting will be held at the Casino. Tickets at \$2.50 will be on sale at usual ticket stations.

Special guests at the meeting, sponsored by engineering department at direction of Chief Engineer R. H. Widmer, will be the division's nine nominees for the President's Award.

Each has originated Cost Improvement Proposals which reexam is required for admission. sulted in savings of more than Students also must file a formal \$25,000. They will be introduced strumental in reducing rejection application with the SMU gradu- at the March meeting—and winate office and submit that along ner of the President's Award will

Presentation of the award itinformation may be obtained self, however, will be made at the October meeting.



MARCH SPEAKER-At Convair Fort Worth Management Club meeting March 19, Frank W. Davis will make first appearance before club since assuming duties as Convair vice president and Convair Fort Worth manager.

CONVAIRIETY



TAXI?—Huskies and sled show up on arrival of F-106 at Eielson AFB after a cold weather test hop, offering contrast in modes of travel. Aircraft has been in Alaska since January, demonstrating how it operates despite sub-zero cold.

'Royal Order of Raw Dealers' Will Welcome New Members

Force people assigned to "Opera- parka and frost-bitten ear lobes: tion: Raw Deal" in Alaska will and after all due deliberation, the soon be awarded special certifi- aforementioned is declared a cates of membership into the "Royal Order of Raw Dealers."

The certificates are being sent to Maj. K. K. Lewis, Air Force project officer and B-58 pilot, and Harold Dunlavy of Convair's customer service.

Printed on ice-blue paper, the certificates will be awarded for



RAW DEALER — Maj. K. K. Lewis, pilot of B-58 undergoing cold weather tests in Alaska, will be among Convair Fort Worth and Air Force people initiated into "Royal Order of Raw Deal-

the B-58 cold weather tests to "the chosen, frozen few."

The proclamation starts out as follows:

"Be it known to all dog sled maids and others of high position and influence, that on this AFB, near Spokane, Wash.; and day of 1959, there Andrews AFB, near Washington, ADC officials said that other appeared in my presence one, D.C.

Convair Fort Worth and Air attired in muk-luks, oil-stained member in good standing, within the confines of this most select and coveted order, and is further designated as being TDY and CWT.

(TDY means temporary duty, CWT stands for cold weather

"Furthermore, be it known that when the bearer of this certificate has made the last permanent change of station, he is entitled to eternal occupancy of the south side of paradise, for, verily, he hath served his hitch in the desolate, frigid wastes of purgatory."

The document is signed by the Majestic-Raw-Deal-Wheel and witnessed by the Exalted Chilled Chief Cog.

"Operation: Raw Deal" is scheduled to be complete this month. Air Force and Convair people

assigned to the cold weather tests on the supersonic B-58 Hustler Alaska. departed Fort Worth last November.

The B-58 being tested was flown up by Major Lewis, with cording to press reports, he has Maj. Jim Zwayer and Capt. been selected as one of a group Perry Amidon riding in the of airmen to be screened as a second and third canopys respec- possible pilot of the first U.S.



NOMINATED - Capt. Tom Bogan, F-106A pilot in Alaska, has been tabbed for possible role as one of first U.S. "space men."

F-106 PILOT RELIEVED MAY GET SPACE ROLE

Capt. Tom Bogan has been relieved by Capt. Harold K. Wimberly as pilot of the F-106A now flying cold weather tests in

orders to report to his unit at Wright-Patterson AFB, Ohio. Ac-

McGuire, Geiger and Andrews AFBs Scheduled To Receive First F-106s This Summer

by early summer, according to an rocket with atomic warhead, the announcement from Air Defense Genie, while in flight. Command headquarters.

A release from the Free Press, Colorado Springs, Colo., news-paper, on Feb. 20 said that locaat McGuire AFB, N.J.; Geiger

The all-weather jet interceptors nounced at a later date.

First F-106 squadrons will be will carry Falcon missiles and activated at three Air Force bases will be able to load the air-to-air

Lt. Gen. J. H. Atkinson, ADC commander, was quoted as saying that the F-106 is a "step forward in the program to give tion for the first three squadrons North American Air Defense operators, igloo builders, bar of Convair F-106 fighters will be Command increased capability in intercepting hostile planes well

> ADC officials said that other bases for the F-106 would be an-

880, With Colors Flying, Passes First Phase of Rugged Structure Test

First major part of the structransport has been concluded satisfactorily at San Diego.

Plane No. 2 now is in the midst of an extensive five-month testing program at the \$2 million structural test facility at the seaplane ramp to qualify the 880 for FAA approval.

"The tests just completed proved out better than any we've ever run," commented W. E. Wise, group engineer in charge of the structural test lab program. "We had fewer problems and were able to complete the series in a shorter period of time than anticipated. In fact, the 880 structure looks better under load than any plane we've put through the test program!"

In the ground tests to check out the structural design the whole plane is put under loads to simulate the most critical flight conditions at various altitudes and speeds. Strain is applied to each part of the plane to test it under the most trying conditions that might exist.

In the series just completed, the plane withstood critical side bending maneuvers such as might be encountered in heavy gusts of air at an altitude of 35,000 ft.

In the second portion of the program, to start next week, stresses on the tail will be measured during conditions simulating an engine out or a side slip.

Production pods and pylons with dummy steel engines will be fitted to the plane by then for later testing.

Loads, applied to the plane by means of hydraulically-controlled whiffletrees, are adjusted from a central control room adjacent to Measurement of the hangar. stresses and other test data is recorded on automatic instruments and effects of loads can Captain Bogan recently received Dick Haney, test conductor, directs to report to his unit at be watched by closed circuit TV.

the hangar.

Engineering crew conducting tural test series being conducted the test program is under direct on the second Convair 880 jet supervision of A. R. Vollmecke, assistant group engineer in charge of 880 structural tests.

Flight testing of plane No. 1 and ground tests of plane No. 2 are destined to be finished at the same time—in late summer of this year.

Control systems on plane No. 2 were checked out by dynamics and structures lab groups of engineering before the first 880 took to the air on its first flight in January.

AMC Liaison Office Created at Warren

Establishment of an Air Materiel Command Liaison Office (AMCLO) at Warren AFB, Wyoming, to provide contract and logistic support for Atlas ICBM weapon system has been an-

The AMCLO at Warren will be headed by Maj. James Thornton. Primary function will be contractual administration of ballistic missile contractors performing within the Warren AFB geographic area.

Other AMCLOs serving the ballistic missile program are located at Patrick AFB, Vandenberg AFB, Edwards AFB, and Holloman AFB.

Frank Pace Queried On Who's His Boss

Frank Pace Jr., in San Diego on business last week, arrived in the General Atomic Division lobby in advance of the time he was expected and announced to the receptionist that he wished to see Dr. Frederic de Hoffmann, division general manager.

"Name, please?" "Frank Pace."

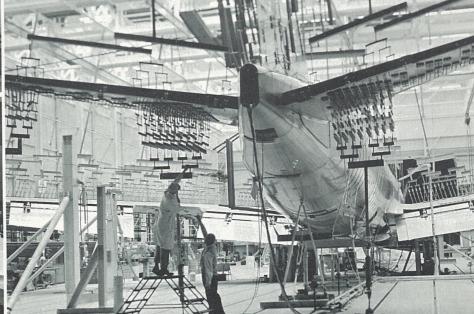
"Who do you work for?" With a half-smile he explained he is president of General Dynamics Corporation.



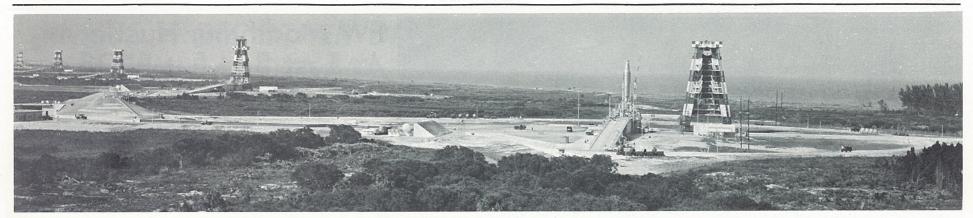
REALISM—Obed Bobbitt of SD structural test lab engineering group went all the way in flotation tests for jet 880 cushions. Here plays role of ditched passenger, clothes and all.



SECOND 880 "FLIES"—Second Convair 880 off the line "flies" while anchored down in structural test program at San Diego seaplane ramp hangar. At left Dept. 6 structural lab men adjusting loads and measuring test data in central control



room are (left to right) D. O. Whitney, A. W. Hamrick, Obed Bobbitt, R. J. Haney, R. H. Holland and S. S. Sifuentes in background, and R. A. Sherman at far right. In right photo Convair SD mechanics adjust whiffletrees that put load on plane.



AT THE CAPE—A scene similar to this is viewed daily by most of Convair contingent assigned to AFMTC, Cape Canaveral, Florida. Shown are Atlas towers

and blockhouses. Sand and tropical growth are typical of landscape thereabouts. Ocean test range begins here, extends deep into South Atlantic.

Convair Ranks At Canaveral **Nearly 1,000**

Force Missile Test Center at Cape Canaveral, Florida is now almost 1,000 and is expected to remain at this level through this year and next.

B. G. MacNabb, Convair base manager, said last week that this estimate does not take into consideration any new programs which might be assigned to the

"Our work load is expected to remain fairly constant from now on," he said last week. "Of course, there could be new assignments at any time that could materially affect the outlook and increase our activity."

Convair personnel assigned to Florida date back to 1953 when a handful of settlers moved there, assigned to one of the pioneering projects connected with the Atlas program which was to follow. Gradually Convair's population there has grown. In late 1957 it had topped 600 and during 1958 passed the 900 mark where it remains currently. A high percentage have never worked for Convair at any other facility.

All but about 50 work at AFMTC itself, the vast test center from which Atlas and other missiles are fired. There, Convair operates two hangars and several complexes concerned with tests and firings. Certain administrative groups, however, have office space at Patrick AFB some 20 miles distant.

Queried if the build-up at Vanderberg AFB in California would test conductor on Complex 65-1, affect Convair's operations at first Atlas complex activated at Cape Canaveral, W. W. Withee, Vandenberg. assistant chief engineer-test, commented:

"The total employment level at AFMTC will not be affected by the Vandenberg operation.

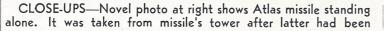
"AFMTC is primarily concerned with research and development. They work out the 'bugs' and point the way to the reliable, operational missile. At the same time, there is continuing research and development into new refine

ments.
"Vandenberg, on the other hand, is a training and operating

Helmich Will Advise **Prospective Students**

W. F. Helmich Jr., senior thermodynamics engineer at Convair SD, has been named to the MIT educational board for a threeyear term. As an educational counselor for the San Diego area, Helmich's duties will consist of counseling and advising prospective students.





"AFMTC will have some interchange of personnel back and forth, to supply Vandenberg with the know-how gained from experience. Certain highly qualified senior personnel have been transferred on a permanent ba-

Typical of these is Robert C. Shotwell, test conductor, who has been at AFMTC from the start

Astro Plant Makes A Deep Impression

Astronautics' plant on Kearny Mesa made quite an impression on a driver delivering a shipment from Datamation Inc. of Compton, Calif.

After a vain attempt to get rid of his cargo at Convair SD, he finally found Astronautics and reported back that he had made delivery at "a building about ten stories high, all trimmed in aluminum!'



50,000 Rounds in Tests

All's quiet on the "northern | gun was mounted in a specially front" at Convair Fort Worth built stand to simulate its tail again after the B-58's 20-millimeter cannon fired its 50,000th round to complete another series of weapon tests.

This most recent in the test series was conducted at the gun butt in the north area of the The reduction will involve data, reservation. For the tests, the

position on the B-58.

T. N. (Troy) Whitehurst of Dept. 6-4 and C. G. Hawkins of Dept. 6-7 are now faced with the task of about two months' "reducing." But no diet is involved. not pounds. Both were assigned to the project when it got under way last July.

"Primary purpose of the tests on the six-barrel M-61 Gatlingtype weapon was to check out production ammunition boxes and feed mechanism for active defense," said Whitehurst, lanky design engineer.

Developed by General Electric Co., the gun produces a continuous, loud roar when it is fired, rather than the short, staccato chatter that came from the 20millimeter cannon fired from the now memorialized B-36.

That's because the gun can fire at a rate of more than 6,000 rounds a minute.

"This gun is used in the F-104 and F-105 as well as in the Hustler," said Hawkins, test lab engineer from Texas A&M, as is Whitehurst.

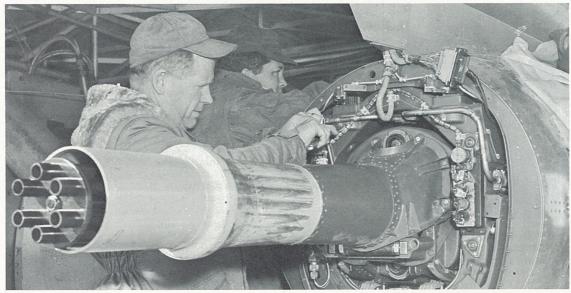
Hawkins said the B-58 weapon weighs approximately 270 pounds, and is considered quite accurate.

The cannon has been test fired in the air from the tail of a Hustler over the Gulf of Mexico. Prior to this, the system was proved successful after other ground tests and flight test firings from a B-47 at Eglin AFB in Florida.

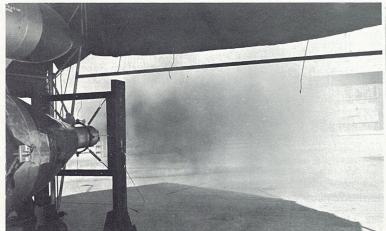
Brazilian Will Visit Convair SD Library

Abner Vicentini, head librarian, Biblioteca Central, Instituto Tecnologico de Aeronautica, at Sao Paulo, Brazil, will be in San Diego next week (March 10) to visit Convair SD's engineering library.

Keith Blair, SD chief librarian, said that Vicentini is in the United States for a three months' tour of the country's libraries.



FINAL TOUCH—Last adjustments are completed prior to firing three-second burst from B-58's six-barrel M-61 Gatling type weapon. Cannon has been tested in firing program at Fort Worth.



FIRE AWAY—Shots from B-58's cannon come so fast that sound is a continuous roar. This was scene during actual firing at Fort



Worth test target. At right C. G. Hawkins, left, Dept. 6-7, and T. N. (Troy) Whitehurst, Dept. 6-4, stand by to reduce data.



LOVELY LINES—Modeled after Polynesian craft of old, this Kolumaran (three hulls) is taking shape at San Diego. Builders are Dean Kennedy and Jack Fulton, both SD Dept. 15-6.

Convair Men Serving Space Administration

Eight Convair men and one from General Atomic Division hold memberships on committees of the National Aeronautics and Space Administration.

From Convair SD, C. W. Frick, chief of applied research, is a member of the Committee on Aircraft Aerodynamics; Michael Dublin, chief of dynamics, Committee on Structural Dynamics; and Dr. W. H. Steurer, materials technical chief, Committee on Materials; and Dr. A. M. Small of engineering, Committee on Aircraft Operating Problems.

Astronautics committee members are Krafft Ehricke, Centaur project director, Committee on Electrical Power Plant Systems; G. L. Armstrong, chief of dynamics, Committee on Control, Guidance, and Navigation; and Robert S. Shorey, engineering, Committee on Structural Design. K. J. Bossart, technical director for Astronautics, is a member of the Committee on Missile and Spacecraft Aerodynamics.

Prof. P. H. Miller of General Atomic Division is a member of the Committee on Nuclear Energy Processes

Two Convair Men Build Unique 40-ft. Kolumaran

In a warehouse on the outskirts | that of the prevailing wind. of Old Town in San Diego an oddshaped dream is becoming a reality for two Convair men.

There the lore of ancient Polynesians, experts in their own rights as pioneer ship builders, and modern principles and methods are being fused together in a manner that will produce a craft unique in this day and age.

In last phase of construction now (launching is set for this May) is a 40-ft. Kolumaran (in Polynesian the word means "three logs"). As the name implies, the craft is three-hulled (because of the double outriggers), but this is as far as the Polynesian ancestry goes.

The builders, Jack Fulton and Dean Kennedy (both SD Dept. 15-6) have planned and labored on this unique craft for over two years. The yacht will weigh a mere 3,000 lbs. and draw but 10 inches of water.

This almost unbelievably light weight and shallow draft for so large a boat will enable it to skim over water at speeds near

"The boat was built on the simple theory that the less surface exposed to water, the greater the speed," Fulton says.

Tank and sailing tests with

an exact-scale model have demonstrated it is almost impossible for the boat to capsize even in 100mph winds.

Outriggers are the same shape and about half of boat's length. Each has seven separate watertight compartments, one of which the builders will use for additional storage space.

Cabin, 8x16-ft., mounted on the main hull, has plenty of headoverhead), berthing and other aca superabundance of storage

Access around cabin, which extends full width of deck, is by wooden catwalk hanging over either side.

Other unique features include an articulated rudder which whips back and forth with the flexibility of an alligator's tail, a high aspect ratio sail plan (tall and thin). Hulls are of monocoque construction (all one piece) built up of shaped plywood and covered with stressed fiber glass. Outrigger arms, built of uni-directional fiber glass, are touted to be strong as steel.

"Even with all these innovations the boat is reminiscent of the outrigger canoes used by the ancient Polynesians who traveled miles across open ocean waters between islands of the South Pacific," Fulton says.

"Though the craft was primarily designed for speed, comfort, and beauty, she assumed such a distinctive Polynesian appearance that we have already christened it the (three porpoises)." 'Kolu Naia'

The dream of the builders is to visit islands in the Pacific and explore coral waters where conventional sailboats dare not approach.

PACE PLATFORM

Frank Pace Jr., teamed with advertising executive Clifford Sutter Feb. 15 to win the American Platform Tennis Association men's national senior doubles championship at Scarsdale, N.Y.

In the final match, narrowed down from a field of 31 entries. Pace and Sutter defeated James Carlysle and Berkeley Johnson, national titleholders for past two years, 6-0, 6-3.

Platform tennis, sometimes called "paddle tennis," is played with wooden paddles and a sponge rubber ball on a wooden platform, one-quarter the size of a tennis court.

> Is It News? Call Convairiety

FW Modifying Hustler As Test Bed For F-108

fication in development departmake it into a flying test bed Co.'s F-108 program.

contracting Hughes Aircraft officials were on hand for the transfer of the plane which had been in test at Edwards Air Force Base. Leonard Roe, supervisor of contracts, and W. D. Halsey, assistant manager of development, represented Convair.

After modification, the B-58 will go into a pre-F-108 flight test program.

Convair development people estimate that modification will be completed this summer.

In addition to the aircraft already in the F-108 program, another Hustler is expected to take part around the middle of April.

Convair is also building two special pods as part of the pro-

On hand at the inspection ceremony in addition to Roe and Halsey were O. Wehmanen, project engineer, J. Jerotz of Hughes, Robert Ralston and Lory Watts of North American.

Convair San Diego is designing and manufacturing the F-108 it. Hustler was returned from Edwing under a multimillion dollar wards to be modified for pre-contract with North American. F-108 flight test program.

B-58 Hustler supersonic | Project staff has been formed unbomber is now undergoing modi- der W. S. Stroud and engineers are deep in the design of the ment at Convair Fort Worth to wing for the trisonic interceptor which is being built for the Air for North American Aviation Force. The long range jet will have a combat ceiling of over Both North American and sub- | 60,000 feet and combat range of at least 1,000 miles.



BIGGEST VALENTINE - Pert Joyce Christian of Convair Fort Worth accepts a B-58 valentine on behalf of company from crew at Edwards AFB which painted

Library of Technical Matter Available to Convair Folk

One of the most extensive con- of service personnel as well as centrations of scientific and tech- that performed by contractors nical information known to the working for all Department of room (6 ft., 8 in. from deck to free world is available to Con- Defense agencies. vair employees everywhere commodations for five people and through the facilities of an unusual organization.

It's called the Armed Forces Technical Information Agency

(ASTIA).

This government agency has reports, old and new, on Department of Defense sponsored scientific and technical programs since consultation or borrowing. World War II.

Actual reports or copies have been compiled into a vast library. An elaborate cross-filing system lists each report under a number of headings for easy access to and Pomona. the user. Included are the works

New Project Office Formed

A new project office has been established in Convair SD engineering to handle contracts on which SD Division acts as subcontractor to other Convair divi-

assistance to other company divi-

Project engineer for the assist work is C. A. Mohr who will report to E. D. Shannon of special assignments.

in 1936 in engineering. In 1940 N.Y. to Vultee Aircraft and General Dynamics President 1952 when he joined the Model 8 tion, and the effects of cosmic project office.

Location of the new office will materials. be in the administration area of engineering on the third floor of

880 Hits Headlines In Distant Denmark

First flight of the Convair 880 hit the headlines in Haderslev, Denmark

A clipping received by R. W. Peters, chief tooling engineer at SD Plant 1, from an uncle in the Danish town carried a picture of the 880 and the news that the "jet passenger liner, which has a speed of 985 kilometers per hour and is the world's fastest, has taken its first flight from Lindbergh Field, San Diego, Calif. As is known, Swiss Air and SAS have bought five planes of this kind."

Central storehouse for these reports is ASTIA's Washington, D. C. headquarters. However, regional offices in New York, Dayton, Los Angeles and San Francisco maintain catalogued cards on all reports as well as microbrought together thousands of cards. For instance, the Los Angeles office reports 200,000 microcards available for immediate

Louis Canter, chief librarian at Convair Astronautics, reports extensive use of services available at the Los Angeles office by personnel at Astronautics, San Diego

"Astronautics researchers are able to determine in advance what is known on various projects or programs, avoiding costly duplication of effort," Canter said.

Questions concerning ASTIA material available and its use should be directed to the chief librarian at each Convair divi-

ons. The office will coordinate all Steurer Discusses Rockets, Spaceships

Dr. W. H. Steurer, chief of engineering materials technical group at . Convair SD, discussed "Rockets and Spaceships" at a Mohr first joined Convair SD meeting last month in Rochester,

transferred back to SD Division ment of rockets and missiles, in 1947 as a group engineer. He dealing with extremes of temwas in charge of preliminary de- peratures, stress and strain, sign on the F-102 from 1950 to weight, cosmic and solar radiadust and fragments on missile

The meeting was sponsored jointly by the Rochester Chapter of the American Society for Metals, American Foundrymen's Society, and the Superintendents and Production Supervisors Group of the Industrial Management



"Well. at least you have a powerful cast, Marie.



CHAMPION—Chris Combs of Convair Fort Worth's Dept. 35 one entered tour in recent Fort Worth Fat Stock Show, took one first, two seconds and

Unwashed

Year-Old Racing Pigeon Wins Blue Ribbon—Without a Bath

Chris Combs of Convair Fort | weren't expecting to place. Worth's Dept. 35 took highest honors with one of her pigeons at they called us and said Sir Joe the recent Fort Worth Fat Stock took a first. I had four birds en-

The bird is "Sir Joe," a cham-ion one-year-old racing homer. second places and one third place," she added. pion one-year-old racing homer.

Mrs. Combs, whose husband, B. H. Combs, also belongs to the Convair clan, said she had never pigeons in any sort of show. Decision to enter this one was at the last minute.

wash Sir Joe before taking him are equipped with three lenses. down there," she said.

Mr. and Mrs. Combs didn't wait once or twice a day, for exertor the judging, since they cise," Combs added.

"It was quite a surprise when tered, and the others won two

Both Combs and his wife are members of the Greater Fort Worth Racing Pigeon Club, and before entered any of her 75 are active in almost all racing contests in this area.

Combs says the pigeons fly at a speed of 60 mph and have "I didn't even have time to above-average vision—their eyes

"We let our birds out to fly

NEWS FROM OTHER DIVISIONS OF GENERAL DYNAMICS CORP.

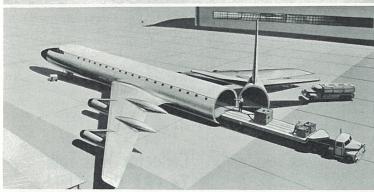
General Dynamics Corporation, created in April, 1952, as successor to Electric Boat Company, is composed of six divisions and a Canadian subsidiary, Canadair Ltd. of Montreal, airframe builders.

Convair, head offices at San Diego, Calif., aircraft, missiles and space systems.

Electric Boat of Groton, Conn., submarines.

Stromberg-Carlson, of Rochester, N. Y., telecommunications, electronic equipment. Liquid Carbonic of Chicago, Ill., carbon dioxide producer, industrial and medical gases. General Atomic of San Diego, Calif., nuclear research, development, production. Electro Dynamic of Bayonne, N. J., electric motors, generators.





SWING-TAILS-At top is model of Canadair's CL-44, longrange turboprop, with swing-tail feature to facilitate loading. Below is artist's conception of Convair 600 jet, also with swing tail. Plan under study calls for 600's main landing gear to "kneel," permitting ground-level loading.

Both Canadair, Convair Plan Swing-Tail Aircraft

new cargo transport aircraft, a turboprop and a turbojet, both employing swing-tail features to facilitate loading and unloading, were announced by Earl D. Johnson, executive vice president of General Dynamics Corporation, during a luncheon at the Wings

Canadair Limited of Montreal, a subsidiary of Dynamics, announced that the swing-tail feature, in which the whole aft section of the fuselage, including the entire tail, would swing aside, will become standard on its CL-44 long-range turboprop trans-

At the same time Convair Division in San Diego announced a proposed swing-tail cargo version of its 635 mile per hour Convair 600 jet transport.

Convair is building 25 passenger 600s for American Airlines and Canadair is producing the CL-44 in quantity for the Royal Canadian Air Force.

Johnson pointed out that rearentry construction of this type Maximum takeoff weight is 275,has obvious advantages over pre- 500 pounds. viously constructed cargo aircraft. Long or bulky objects can be put aboard without maneuvering through a side door-vehicles can be driven directly into

Center to Process Automatic Data

LOS ANGELES — The Electronic Control Systems facility of Stromberg-Carlson Division formally opened last month the first automatic data processing center on the West Coast for the preparation of magnetic tapes to be used to operate numerically controlled machine tools.

The Center will function as a customer service organization to support the preparation of magnetic tapes to customers' specifications for the operation of ECS DIGIMATIC Contouring Control Systems.

These systems are currently being installed and operated in leading aircraft manufacturing

NEW YORK - Plans for two | the fuselage. Other rear-entry types now in use have elevated tails or other features not as desirable aerodynamically as the classic straight-tube airliner fuselage, he said.

The CL-44, powered by four Rolls Royce Tyne 12 engines, has a cruising speed of more than 400 miles per hour, and a maximum takeoff weight of 205,000 pounds. It will be able to carry a maximum payload of 60,000 pounds or 167 passengers. With a load of 100 passengers it will have a range of 5,800 miles. The interior cabin is about 100 feet

The swing-tail Convair 600 would have a cargo-cabin area 80 feet long by ten feet, eight inches wide and seven feet one inch high. As a troop carrier it could haul 147 men in six-across seating or 123 in five-across configuration. Powered by four General Electric CJ-805-21 aftfan engines, the plane would have a range of 5,750 miles with a payload of ten tons or 2,935 miles with a payload of 35 tons.



THIS IS TRIGA—This is photo of TRIGA reactor core, taken from top looking into and through 16 feet of water which serves as shielding. U. S. Veterans Administration Hospital at Omaha, Neb., has purchased one from General Atomic.

S-C Dedicates New Acoustic Test Facility

ROCHESTER — A demonstration of submarine-hunting by sonar marked the opening of the nation's largest indoor underwater acoustic test facility at Stromberg-Carlson last month. (SONAR is short for SOund NAvigation Ranging).

As high-ranking Navy personnel and General Dynamics executives attending the Anti-Subma-rine Warfare Conference here listened and watched, sound was transmitted underwater and the echo off a model submarine was recorded. The full advantages of the uniformity and stability of the indoor facility, in contrast to the instability of open-water measurements, were emphasized by this fully-instrumented demonstration.

RAdm. John S. Thach, a key commander in the Navy's antisubmarine defense planning, dedicated the new sonar facility by pouring into the tank a bottle of Arctic water collected by the atomic submarine Skate when it made its historic trip to the North Pole.

The new sonar tank, measuring 48 feet in diameter and 30 feet in depth, will play an important role in developing defenses against the deep-running nuclear submarine, Lawrence B. Richardson, senior vice presidentengineering of General Dynamics, told the conference.

The new underwater acoustic facility is equipped to carry out basic research in sonar, and to study new techniques for detecting the quiet nuclear submarines.

The size of the tank, accommodates the longer wave lengths World War II. The instrumentation also is unusually com-plete, providing maximum flexibility and utilization. It includes a seven-channel tape recorder-reproducer, an automatic sweep frequency transmission measuring set, a constant bandwidth analyzer, a proportional band analyzer, memory oscilloscopes and cameras, a high speed camera and a variety of transducers.

CANADAIR TO BUILD ELECTRONIC SORTER

MONTREAL — Canadair has been awarded a contract for the pilot installation of an electronic mail sorting machine.



"As president of the car pool, I make a motion we stop and do our shopping . . . all opposed, signify by walkin' home . . .

Gallaudet Forsakes Aircraft For Tennis Racket Strings!

(This is the third installment in a continuing history of Convair. The first two traced the early years of Gallaudet Aircraft, an important Convair "tributary," under the leadership of brilliant Edson Gallaudet, pioneer aircraft designer.)



This was the Gallaudet Aircraft factory building at East Greenwich, R.I., as it looked in the early '20s.

built by Gallaudet Aircraft Corp. Consolidated, was then 36 years and called the "last word in old, a self-made businessman and travel comfort," figured in an ex-legislator who had served five amusing incident in 1920, later years in the Air Service. He was known as the F.D.R."

Franklin D. Roosevelt was to accept the Democratic vice presidential nomination in outdoor ceremonies at Hyde Park on Aug. 9. The New York Evening Post chartered the Liberty Tourist to deliver 1,000 special airplane editions to the scene. Piloting the plane was Leo Bourdon and his brother, Allen. (Bourdon, onetime Gallaudet employee and lawhich have come into use since ter with Consolidated, is still with Convair, in Dept. 99 at SD).

A field adjacent to the speaker's platform was too small to land on, so, while Allen circled, Leo tied the papers into 50-pound bundles and 'bombed" the pasture. The bundles broke, papers scattered and the crowd ran to get them.

"We just about broke up the speaking!" Leo recalls.

By 1922 Gallaudet Aircraft was in serious financial straits. It had lost nearly \$3 million since World War I. Its founder, Edson Gallaudet, had resigned and set up a business of his own-making thousands of yards to sporting goods firms.

As Reuben Hollis Fleet, who founded Consolidated Aircraft the following year, said of Gallaudet, he "was a wonderful man as an engineer, but he would cheerfully undertake to build a plane with 15 innovations, any one of which could cause failure."

Fleet, destined to take over the

Tool Apprentices Elected to Office

Two Convair SD tooling apprentices, Fred Simeth and Bob Barone, were elected last week secretary-treasurer and membership chairman, respectively, of the student chapter of American Society of Tool Engineers in San Diego.

Earl Williams (Dept. 600), chairman of the senior chapter of ASTE, will officiate April 10, 7 p.m., at San Diego Hotel when the student chapter receives its time of inauguration of air mail

A "Liberty Tourist" airplane, Gallaudet assets when he formed "Bombing of born March 6, 1887, in Montesano, Wash. As a youngster he sometimes worked in the woods with his father, a timber buyer who had reached the Pacific Northwest from Kansas City by foot, horseback and stage coach.

Reuben Fleet finished grade school and entered Culver Military Academy, graduating in 1906 with an appointment to West Point. The Army ruled he would have to wait two years (until he was 21) to enter. By that time Fleet was launched on a business career of his own, as timber appraiser and real estate dealer.

Fleet struck his first blow for aviation in 1915, as adjutant of the Washington National Guard and youngest member of the State Legislature. With an aviator friend at the controls of a homemade plane, he circled the dome of the state capitol for 35 minutes—then introduced a bill appropriating \$250,000 for aviation training in the National Guard. (This topped the \$225,-000 appropriation Congress had voted for the entire country!)

As Fleet expected, passage of waterproof tennis racket strings! the bill in the lower house at-They were manufactured by tracted national attention. He treating silk strands with airplane dope. He ultimately sold nal Corps Aviation Section agreed to press Congress for funds to train one guardsman from each state annually.



President Woodrow Wilson is shown with Reuben H. Fleet at

Log Book Entries

Promotions

Promotions to and within supervision, rofessional and administrative effective

Promotions

Promotions to and within supervision, professional and administrative effective February 16:
Dept. 4: to buyer-sr., E. G. Banning, M. Cates Jr., R. D. Clover, B. Conly, H. C. Davis, J. P. Ferguson, C. L. Gaskamp, C. C. Harris, L. Hughes, H. C. Martin, A. L. McKittrick, E. M. Rusk, D. G. Saindon, G. P. Stimpson, M. I. Taylor, J. M. Thomas, A. G. Towle, C. E. J. Veach, L. A. Ziegler.
Dept. 6: to aerodynamics engineer, M. F. Mastin Jr.; to aerophysics engineer sr., D. H. Daggett, B. Gruver Jr.; to associate engineer, R. E. Ancira, K. G. Sloan, D. L. Sweitzer; to chief engineering metallurgist, F. C. Nordquist; to design engineer, J. H. Robinson; to design engineer, J. H. Robinson; to design engineer, J. H. Robinson; to flight test engineer, D. C. Graham; to flight test engineer, D. C. Graham; to flight test engineer senior, S. A. Piel; to industrial motion picture project director, R. S. Mitchell, J. M. Ratliff; to project structures engineer, A. A. Cunningham; to propulsion engineer, F. C. Cardinale, R. D. Wegrich; to propulsion engineer sr., G. S. Massingill; to structures engineer, J. E. Foshee, H. Lederman, R. L. Nelson; to test engineer, R. H. Dean; to test engineer rs., P. L. Charvoz.
Dept. 8: to manufacturing engineer "A." R. C. Hartwig. Dept. 19: to EDPM Programmer sr., L. M. Hawthorne, J. R. Mackley; to tabulating analyst, K. M. Harris.
Dept. 25: to mechanical design engineer "A." B. P. Boucher.
Dept. 26: to chemist sr., G. T. Baze, Jr.; to process analyst, D. R. Clawson; Dept. 63: to foreman, J. Leahy, R. C. Parker, B. R. Plumlee, R. L. Scholwinski Jr., L. L. Stephens, C. N. White.
Dept. 75: to assistant foreman, C. L. Baxtley, Jr., R. E. Curda, W. H. Davis, L. W. Taylor Jr., M. E. Wright; to material liaison man, C. L. Robeson.

Awards

The following received Employee Suggestion awards totaling \$907.29 for the period ending 9 February.

Dept. 6, J. L. Eblen, T. J. Ryan, B. G. Yeaman, T. J. Lunn; Dept. 20, C. R. Baker; Dept. 25, A. K. Brammer, G. C. Brooks, R. E. Crowder.

Dept. 27, R. A. Vaughan, G. A. Strittmatter, W. M. Allen, R. Brannon, J. J. McGee; Dept. 28, W. L. Kern; Dept. 31, W. A. Ballard.

Dept. 36, T. P. Lowry; Dept. 56, M. E. Dillard; Dept. 59, J. R. Beeman; Dept. 64, L. G. Meier, B. R. Travis.

Dept. 74, P. E. Noe; Dept. 81, D. W. Lawless, W. E. Wiley.

Convair Recreation Association events in the next two weeks are listed below. Read-ers interested may clip this column and save it for reference until next issue of Convairiety. For more information, phone CRA office, ext. 2771 at Fort Worth, ext. 424 at Daingerfield.

Tonight, March 4
ASTRONOMY: work parties, 7 p.m.,

CRA.
BRIDGE: master point session, 9:30

BRIDGE: master point session, 9:30 a.m., CRA.
CHESS: meeting, 7:30, CRA.
DRAMA: rehearsal for "The Matchmaker" 7:30-10 p.m., CRA Playhouse.
RANCH ACTIVITY: calf roping, 8-10 p.m., ranch area, CRA.
WOMEN'S ACTIVITES: film, "American Gancer Society," 8 p.m., CRA Club House.

Thursday, March 5

ARCHERY: snoot, 7-10 p.m., archery range, CRA.
ART: class, 7:30 p.m., FW Art Center.
BADMINTON: play, 7:30-10 p.m.,
Stripling Jr. High Gym.
DRAMA: rehearsal for "The Match-maker" 7:30-10 p.m., CRA Playhouse.
RADIO: operating night, 7:30 p.m.,
CRA.

SQUARE DANCING: classes: beginners 7 p.m.; advanced 8:15 p.m., CRA.

Friday, March 6
BRIDGE: class, 6:30 p.m.; duplicate session 7:45 p.m., CRA.
RANCH ACTIVITY: cutting 6-8 p.m.; roping 8-10 p.m., ranch area, CRA.
Saturday, March 7

ASTRONOMY: work parties, 9:30 a.m.-

Sunday, March 8

MODEL AIRPLANE: control line contest, 12 noon, Forest Park.
SKIN DIVING: spear fishing contest, Possum Kingdom.
RANCH ACTIVITY: advanced riding lessons, 2 p.m., cutting 4-6 p.m.; roping 6-8 p.m., ranch area, CRA.

Monday March 9

Monday, March 9

DRAMA: rehearsal for "The Match-maker" 7:30-10 p.m., CRA Playhouse. MOVIE: "The Detective" with Alec Guiness. Shown lunch period 50-foot

aisle.
VOLLEYBALL: league play, 6:45 p.m.,
Southside Recreation Building.

Tuesday, March 10

*

Antelope Va Betty Lou Nash.

CAMERA: photography class, 7-9 p.m. CRA.
COIN: meeting, 8 p.m., CRA.

ARCHERY: shoot, 7-10 p.m., archery

Fort Worth

Activities Calendar . . .

effective February 10. Box 96, Golden, Texas.

BROWN—W. A., Dept. 31. Original hire date August 5, 1943 (FW), retire-ment effective February 27, 7812 Long-field Drive, Fort Worth, Texas.

CURRY—R. L., Dept. 30. Original hire date December 4, 1946 (FW), retire-ment effective March 10. 303 Main St., Plaza Hotel, Fort Worth, Texas.

FARRIS—T. F., Dept. 74. Original hire date February 17, 1947 (FW), retirement effective February 17. Star Route, Sulphur Springs, Texas.

KEETCH—L. T., Dept. 31. Original hire date February 12, 1947 (FW), retirement effective March 2. Rt. 1, Box 64, Burleson, Texas.

WARREN—R. D., Dept. 82. Original hire date November 8, 1950 (FW), re-tirement effective February 20. Box 4, Greenwood, Texas.

WATSON—F. E., Dept. 25. Original hire date March 7, 1951 (FW), retirement effective February 13. Rt. 1, Box 205, Weatherford, Texas.

Births

DAINGERFIELD

WOODS—twin daughters, Anita Elaine, 7 lbs., and Alicia Gail, 7 lbs. 4 ozs., born February 17 to Mr. and Mrs. G. S. Woods, Dept. 2.

FORT WORTH

WARD—Le Ann, girl, 6½ lbs., born Feb. 20 to Mr. and Mrs. M. D. Ward, Dept. 10.

Deaths

BENNETT-T. L., Dept. 6-5, died February 22. Survivors include his wife, one daughter, one son, his mother, three brothers, and four sisters.

HENDERSON—G. A., Dept. 15, died February 11. Survivors include his wife, one son, one daughter, three brothers and one sister.

GRIMES—L. R., Dept. 96, died February 17. Survivors include his wife, one daughter, one son, his mother, two sisters and two brothers.

Card of Thanks

I would like to express my sincere thanks to all my wonderful friends for their remembrances during my recent ill-J. D. Williams, Dept. 27-1

Lost and Found

Retirements

BOGGS-T. J., Dept. 81. Original hire date January 29, 1951 (FW), retirement date Ja

RANCH ACTIVITY: cutting, 7-9 p.m.,

ranch area, CRA. TABLE TENNIS: play, 7:30 p.m., CRA.

Wednesday, March 11
ASTRONOMY: work parties, 7 p.m.
CRA.

CRA.
BRIDGE: duplicate session, 9:30 a.m.
CRA.

Thursday, March 12
ARCHERY: shoot, 7-10 p.m., archery

CRA. SKIN DIVING: meeting 7:30 p.m. CRA.

CRA. STAMP: meeting 8 p.m., CRA. RANCH ACTIVITY: cutting, 7-9 p.m., ranch area, CRA. TABLE TENNIS: play, 7:30 p.m., CRA.

Sunday, March 15 MODEL AIRPLANE: "dogfight," 2:30

Daingerfield

p.m., field.

Convairiety

First Place Winner International Council of Industrial Editors

MATCHMAKERS?-Could be. But actually it's some of the

Wing and Masque players caught at "The Matchmaker" rehearsals. They are, left to right, Jean Mooneyham, Guy Spencer, Joyce Christian and Pat Baker. Directing is Chesley York at right.

Matchmaker' Play Dates Moved To April, Director Announces

Production dates for "The Erwin Swint and Maggie Wilson Matchmaker," Thornton Wilder's playing the Mr. Vandergelder and four act farce now in rehearsals Mrs. Levi roles respectively. at the CRA Wing and Masque Playhouse, have been moved up to April because of the Easter holidays.

Commissioner E. S. (Stan) Brown, who is also directing, changed the playbill to April 2, 3, 4, 9, 10 and 11 because of the Easter season. The play had originally been set for March 19, 20, 21, 26, 27, and 28.

Casting is now complete with

Three Chess Teams Compete in New FW Chess League

Three CRA chess teams entered the newly organized Fort Worth Chess League last week and will be playing two games each month.

Commissioner Dick Wooten said he hopes other prospective players will participate as he hopes to enlarge the reserve pool and the number of Convair represented teams.

Presently, there are six teams in the city league, three of which CRA.
CAMERA: slide show, 7:30, CRA.
DRAMA: rehearsaal for "The Matchmaker" 7:30-10 p.m., CRA Playhouse.
RANCH ACTIVITY: calf roping, 8-10
p.m., ranch area, CRA.
WOMEN'S ACTIVITIES: Mrs. Jewel
Taylor "Interior Decorating," 10 a.m.,
CRA. are sponsored by CRA. There are six players to a team, and three categories of players—advanced, intermediate and begin-

Those interested in organizing a team or being alternates are asked to contact E. E. Grimm at AT 4-7289 or Wooten at ext. 302. Club members will meet tonight at 7:30 p.m. in the card room at

CRA. Thursday, March 12 ARCHERY: shoot, 7-10 p.m., archery range, CRA. ART: class, 7:30 p.m., FW Art Center. BADMINTON: play, 7:30-10 p.m., Stripling Jr. High Gym. DRAMA: rehearsal for "The Matchmaker" 7:30-10 p.m., CRA Playhouse. RADIO: operating night, 7:30 p.m., CRA. SQUARE DANCING: classes: beginners 7 p.m.; advanced 8:15 p.m., CRA. Friday, March 13 BRIDGE: tournament, 6:30 p.m., CRA. RANCH ACTIVITY: cutting 6-8 p.m., roping 8-10 p.m., ranch area, CRA. Saturday, March 14 ASTRONOMY: work parties, 9:30 a.m.-3 p.m., CRA. BRIDGE: tournament, 9 a.m., CRA. BRIDGE: tournament, 1:30 p.m., CRA. CHESS: meeting, 2 p.m., CRA. CHESS: meeting, 2 p.m., CRA. RANCH ACTIVITY: advanced riding lessons, 2 p.m., ruch area, CRA. Monday, March 16 DRAMA: rehearsal for "The Matchmaker" 7:30-10 p.m., CRA Playhouse. MOVIE: "It Should Happen to You" with Judy Holiday. VOLLEYBALL: league play, 6:45 p.m., Southside Recreation Building. Tuesday, March 17 CAMERA: photography class, 7-9 p.m., CRA. SKIN DIVING: meeting 7:30 p.m., **Control Line Tilt Planned Sunday**

CRA model airplane enthusiasts will have another control line contest Sunday at 12 p.m. at Forest Park.

Winners in the last contests were Chuck Rutledge, C. L. Price, Marion Kitchens, E. G. Clifton, Stuart Lee and Bill McInturf.

Guy Spencer will enact Cornellious Hackl, while Pat -Baker will be his side-kicking partner, Barnaby Tucker.

Other members of the cast include Jean Mooneyham as Mrs. Malloy, Joyce Christian as Min-nie, Cliff Countryman as Ambrose, Bibby Schumann as Miss Van Huysen and Mary Christian as Ermengarde.

Victor Patoski will be Malachi, Bob Hallam will play Joe, Theda Cobb will do Gertrude, the cook will be Carrie Brent and J. D. Goodman will be the coachman.

Chesley York is assisting Brown with direction.

Anyone interested in working backstage has been invited by Brown to rehearsals at the Playhouse, 2966 Park Hill Drive, on Monday, Wednesday and Thursnights at 7:30 p.m.



BUDDING REMBRANDT? -Not hardly. It's Jim House of Dept. 6-4 taking advantage of CRA art classes now in progress at Fort Worth Art Center on Thursday nights. Models are being used for life drawing.

Is It News?

Is it news? Then grab a telephone and call Convairiety:



QUALITY LEADER—Department 35 took top quality improvement honors handed out for January. Pictured here with the plaque are, left to right, R. E. Hatton, inspection supervisor; E. C. Costantino, Dept. 35 general foreman; Mrs. M. K. Canada of Dept. 35; and R. E. Atnip.

Employee Bond Buying Lauded

Convair employees' purchases of U.S. Savings Bonds are the largest single factor in the continued outstanding success of the savings bond program in the 20 counties which make up the Fort

Worth area.
Berl E. Godfrey, savings bond chairman for the area, paid this tribute to Convair people at a dinner February 25 at Worth Ho-

He told representatives from each of the counties that the Fort Worth area in 1958 was the only heavily populated area in Texas to meet and exceed its savings bond target. The area accounted for approximately 18 million dollars in purchases about 109 per cent of goal.

Representing Convair at the meeting was F. E. Chambers, manager of industrial relations and security.

Convair employees in 1958 purchased a total of \$7,788,486.25 in savings bonds by payroll deduction, the largest operation of this type in this part of the nation. In the year, employee purchasers at the peak totaled more than 66 per cent of all employees, and at year's end totaled over 60 per cent of all employees. Bond purchases for some time now have run at a level of about six per cent of the entire payroll.

Collector Will Talk To CRA Coin Clubbers

Raymond E. Bond, a bank cashier and professional coin collector, will speak to CRA coin club members at 8 p.m. on March 10 at the clubhouse.

Bond's collection includes all the regular mint coins since 1792 except a few extremely rare pieces. He says he's proudest of his collection of gold coins which are insured for something like

Traveling extensively for the bank to give coin lectures, Bond says that his job is more like a hobby than work.

Coin club members will have a chance to question Bond on any phase of coin collection, as sis speech will not be formal but on an impromptu basis.

Dr. Orr to Talk On Space Vehicles

CRA astronomy club members will hear something about "Space Vehicles" from Dr. William Orr at their next meeting set for 7:30 p.m. on March 18 at CRA.

Dr. Orr is a Convair senior aerophysics engineer.

The Passing

The following service emblems were due during the period March 1 through March 15.

Twenty-year: Dept. 6, L. J. Long. Fifteen-year: Dept. 6, W. E. Klegka, S. J. O'Shaughnessy; Dept. 15, J. K. Minter; Dept. 16, W. E. Ahola; Dept. 20, S. B. Applewhite.

Dept. 22, L. R. Glover, J. D. Johnston, B. C. Taylor; Dept. 23, J. Kuffner; Dept. 24, R. C. Bennett; Dept. 25, H. S. Smith, J. A. Stewart.

Dept. 29, E. M. Van Huss; Dept. 30, C. A. Baker, G. J. Koloff; Dept. 31, M. Hayes, R. W. Smith; Dept. 32, J. H. Hodges.

C. A. Baker, G. J. Koloff; Dept. 31, M. Hayes, R. W. Smith; Dept. 32, J. H. Hodges.

Dept. 36, M. C. Karr; Dept. 46, D. Bowman, E. G. Irwin; Dept. 54, T. A. Miller, C. F. Wolfe; Dept. 55, A. Simmons.

Dept. 56, D. A. Shaw; Dept. 57, M. N. Wilson; Dept. 58, J. O. Hood; Dept. 63, V. B. Orr; Dept. 59, S. C. Atchison, J. B. Parker.

Dept. 65, O. S. Knudson; Dept. 74, J. F. Peppers; Dept. 82, C. A. Smalley; Dept. 95, L. L. Green.

Ten-year: Dept. 4, G. A. Hutchison, B. J. Rayburn; Dept. 6, L. J. Kulakowski, T. K. Lance, O. O. Ohlsson Jr.; Dept. 15, R. L. Norton.

Dept. 20, C. F. Gann, H. W. Gilliland, S. J. Moore; Dept. 21, A. A. Schrimsher; Dept. 22, K. H. Boshers, O. C. Hill, R. M. Pratt; Dept. 24, E. C. Jordan, W. C. Larson, B. Willbanks.

Dept. 25, H. L. Grimmett; Dept. 27, A. E. Coston, H. E. Miller Jr.; Dept. 32, J. F. Hazzard Jr., B. M. Riley; Dept. 33, T. Brewer, W. Lee.

Dept. 34, O. H. Sonnenberg; Dept. 36, W. E. Shumate; Dept. 46, C. B. Bigham; Dept. 65, J. D. Gowan; Dept. 75, A. J. Koon; Dept. 81, I. S. Beach, E. W. Beaty; Dept. 82, E. W. Patton.

Operation: Grand Slam' Set By Bridge Club in March

ation: Grand Slam" have been set for March 14 and 15 as CRA bridge enthusiasts start bidding in a third annual sectional tournament to be held at CRA.

Count down for the actual tournament launching will be 9 a.m. on Saturday and 1:30 p.m.

A special cocktail and buffet have been planned specially for Convair spacemen on March 13 at CRA. Refueling will begin at 6:30 p.m. with dinner and

Softball Fans Invited To Meet on March 18

There will be a meeting in the Council Room at CRA at 7:30 p.m. on March 18 for all Convair people interested in softball.

Commissioner R. L. Evans says that he hopes all softball enthusiasts will show up for the organizational meeting - boys and girls included.

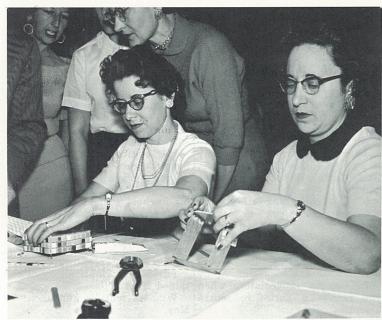
Target dates for CRA's "Oper-| bridge starting at 7 p.m. and 8 p.m. respectively.

> Tournament play gets rolling on March 14, Saturday, at 9 a.m. with Project Atlas or a team-offour. Running simultaneously with this will be a side game entitled Project Bird Watchers.

Afternoon sessions on March 14 will be men's pairs commencing at 1:30 p.m., the same time as the women's pairs. These two games will be called Projects Minute Men and Dinahsoar respectively. That night at 7:30 p.m. Project Spatnik will usher in mixed pairs playing.

Two projects have been set for March 15, Sunday. Project Prime Target, open pairs, will start qualifying at 1:30 p.m. with finals set for 7:30 p.m. A consolation game will end the tourney beginning at 7:30 p.m. which will be tagged Project Fall Out.

Buffet suppers will be served between events both March 14 and 15, and space reservations can be made at Hotel Texas and Western Hills or by contacting I. B. Hale at PE 7-4694.



MOSAICS-Mrs. H. W. Hunter, left, and Mrs. T. H. Eidson work on mosaic ash trays at a recent meeting of the CRA morning women's club. Representatives from American Handicraft gave

Interior Decoration Is Topic For Women's Club on March 11

interior decorator, will be guest speaker at the next morning session of the CRA women's club slated for March 11 at 10 a.m. at

The program was announced by Joan Huggins, vice president tions. and program chairman.

The evening group of the CRA

Jewel Taylor, a Fort Worth | women's club meets tonight at 8 p.m. at the CRA clubhouse.

> According to Co-commissioner Winnie Leonard, a film from the American Cancer Society will be shown and a local physician will be on hand to answer any ques-

> Door fee is 25 cents, and all wives and guests are invited.



TROPHY WINNERS—Harry Carlberg, CRA bowling commissioner, center, holds big trophy that the five bowlers around him won at the recent Fort Worth Women's Bowling Association City Tournament for 1959. They won city title in Class C. Holding individual trophies around him, clockwise, are Marjorie Worsham, Dorothy Calvert, Grace Adwell, Margaret Hitt and Margaret



CUP OF JAVA - Convair FW's Roy Arledge, left, draws a cup of hot java at recent B-36 work party at Carter Field. C. A. Doyle has also been "sprucing up" the plane.

Baseball Meet Set for CRA

Prospective members of the 1959 CRA baseball team will meet at 5 p.m. tomorrow night at the CRA baseball field.

Commissioner Roy Jarl and Manager Bert Parker will be on hand to explain the approaching season to those who might like

"Actual tryouts have been set for later," Parker said. "We're just trying to



bers." Parker says he's looking for

as many players as he can get and that the field wide open for all newcomers.

see who we've

got and will

take down ad-

dresses and

phone num-

PARKER

Like last year, several of the men expected out for the team have been semi-pro players. Parker says, however, this doesn't assure these people of a berth on the team.

"Everybody's got to produce and put his all into it," the manager added. "We'll have another tough season this year which will make teamwork inevitable."

Last season's CRA baseballers were city and district champs and went to the state finals where they were defeated in the

Engineers Top Flight Test to Take Title

CRA's cagey Engineers outhooped a determined Flight Test five 41 to 30 recently to latch onto the championship title of the second half of Wednesday night league basketball.

In addition to the second place Flight Test team, other standings show Dept. 64 Instrumentation, Dept. 28-4 and the Props coming along in that order.

Now the Tuesday night Tooling champs and the Engineers are both in a Class B City League playoff which will run to March

CRA's Rockets, the independent Convair quintette, are also playing in the City League playoffs in the Class A category.

Mike Paul Bowls **268 in 666 Series**

Mike Paul of Dept. 16 caused quite a bit of excitement at R. and R. Bowlanes on University Drive recently when he rolled a 268 in a series of 666.

Paul bowls with the Wednesday night Convair Guys' and Gals' League.

CRA Camera Club Will View Slides

A slide show will be presented for CRA camera club people at their next meeting March 11 at 7:30 p.m. at the clubhouse.

The slides will be shown along with a lecture by a representative of the Photographic Society of America from Dallas.

Carolyn Norman Wins Again To Retain Texas Open Title

cessfully defended her Texas open women's singles title when she outpaddled her mother, Lydia Norman, three to one in the recent 1959 Texas open table tennis tourney in Fort Worth.

Miss Norman, who also holds the 1958 U.S. national junior mixed doubles, and her mother were both finalists in 1958.

Louis Lancer, CRA's number

Skin Divers Will Vie For Spear Fishing Honors at 'Possum

Skin diving enthusiasts will leave Saturday for Scenic Point Lodge at Possum Kingdom where they will prepare to enter a spear fishing contest scheduled to start Sunday morning at 7 a.m.

President W. D. Presley said all members and friends of the CRA skin diving club are invited.

The next meeting of the club has been set for March 17 at 7:30 p.m. at CRA.

Daingerfield Modelers Plan Meet March 15

Convair Daingerfield model airplane enthusiasts have scheduled a contest for 2:30 p.m. on March 15 at the Lone Star Softball Field just across the highway from the plant entrance.

The contest will be highlighted with an old fashioned "dogfight" in which the model operators try to make their tiny craft out-maneuver one another.

CRA's Carolyn Norman suc-|one player, and Miss Norman teamed up to defeat Mrs. Norman and Mort Finklestein of Oklahoma City in mixed doubles by a score of three to one.

The mother and daughter combination then came back in the women's doubles to overpower Lillian Coolidge and Geneva Curry three in a row.

Finklestein nudged Lancer out of getting into the finals of men's singles and walked over Joe Dragosh, 1953 finalist from Kansas City, in the finals in three straight games.

Men's doubles found Lancer and Bill Potter bowing to Dragosh and Gene Smith of Wichita, Kan., in five games.

B. B. Treese managed a three to one win over Randy Potter in the boys' class of 15 years and under.

Commissioner Jim Collin was defeated in the consolation finals by Finklestein three to one.

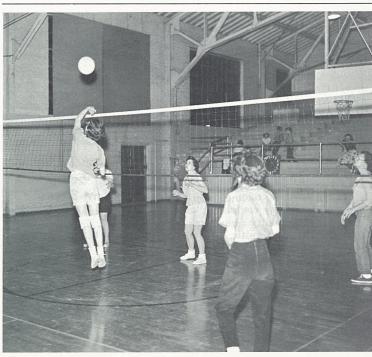
Jimmy Dwyer, son of Karl Dwyer of spares, won top honors in the 15, 16 and 17 year old class, while Treese was top man for the younger set.

Exhibition Match Is Planned for Sunday

Two nationally ranked table tennis players, Bernard Bukiet and Sol Schiff, will put on an exhibition game at the Central YMCA Saturday night at 8 p.m.

Bukiet, men's singles national champ last year, and Schiff will answer any questions and demonstrate trick shots to CRA table tennis enthusiasts.





UP AND OVER—CRA's women volleyball players have six strong teams competing in second half of regular league play. League play is in progress each Monday night at Southside Recreation Building at 215 W. Vickery.

Second Half Volleyball Play Under Way with Six Teams

play is now under way with six teams participating in both the men's and women's leagues.

League play started last week and will run through April 27. Prizes will be awarded winners at end of the season.

Volleyball sessions are going full blast on Monday nights at the Southside Recreation Building at 215 W. Vickery.

Commissioner Andy D'Ascenzo said these sessions are open to everyone but that it's now too

late to enter league play. D'Ascenzo expressed apprecia-

Second half of CRA volleyball | tion for the response and participation of women players.

Winners of first half of league volleyball were the Rhome Independents in both the men's and women's league.

Teams participating in second half of league play include Eagle Mountain, Bel Aires, Carswell, The Hustlers, Rhome, and the All Stars for the men's league. Women's teams this half are the Barefoots, Evans Specials, Eagle Mountain, Rhome, the Goofers and River



TOP QUALITY—Convair Fort Worth's J. Y. McClure, right, manager of quality control, presents L. L. (Lon) Clark with a plaque for outstanding work during past year.

Quality Work Earns Awards

(Continued from Page 1) ing; H. D. Roye, for administrative capability; and E. C. Rubush, who worked out test procedures with aluminum producers for acceptance of place materials for critical parts.

And M. A. Stevens, outstanding in reducing contamination problems in various B-58 systems; H. M. Toomer, for willingness to apply excellent knowledge of aircraft tools to assist other sections and departments; and Bob Toudouze for outstanding personnel work.

Dept. 35 Wins **Quality Race**

Shooting almost as high as the ICBM Atlas with its quality improvement last month was Convair Fort Worth's Dept. 35.

And by strange coincidence, Dept. 35 just happens to manufacture the lower section of the mighty missile. More than 40 laminated fiber glass parts and assemblies are made by this group for the Atlas in addition to work being done on the super-

E. C. Costantino, general foreman, is "up in orbit" about the quality improvement award that the people in Dept. 35 won last

Constantino said that this never could have been done without the combined efforts of all of the department, tooling, engineering and quality control.

The monthly quality award was attributed to a significant decrease in losses to scrap. In this department, the average monthly per cent loss to scrap for the first quarter in 1958 was 5.0 per cent, while the monthly per cent average during the fourth quarter was something like 1.3 per tion in 1948, was president of 25 licenses in each box—250 licent!

Simplicity
Stressed For Reliability

(EDITOR'S NOTE: This is the fourth in a series of brief non-technical articles on some aspects of Convair Fort Worth's program to further improve reliability of the B-58 and other products.)

Keep it simple .

That could well be the theme song of the group of Convair Fort Worth engineers in product design. It's the reliability group.

"We harp on keeping product design simple for a very good reason," said John Murphy, design group engineer. "The simpler the design that will do the job, the better the product in many ways — and usually the more reliable."

Job of the product design section is to develop the design for the actual hardware to meet all design requirements. These requirements include such factors as weight, size, performance, cost, producibility, maintainability and reliability.

And the job of the reliability group is to make certain that the product design always includes proper consideration for reliabiliability, ground and flight testing This means design for relito develop and prove reliability and correction of weak links.

"It's never easy to assure that the end product will be reliable," said Murphy. "But it's easier when you're working with known items on which we've had experience.

"When it's entirely new — as are many of the items and systems in the B-58 — it's another story. Then we have to refer to data on similar equipment, and begin as quickly as possible to build up data on the new equip-

Engineers compile information on reliability of equipment from every flight of the B-58. When improvement is deemed advisable. they go into action immediately.
"It's actually a never-ending

process of always improving, said Murphy. "It never stops.

Reliability engineers follow such a process on each of the aircraft's many subsystems, electronics, for example, which includes the bombing - navigation system, communications and the

"Our aim is to make certain that the stuff works—and will keep on working-so the aircraft can carry out its mission," said Murphy. "And that requires that everything be kept as simple as possible."

Convairiety Editor Honored for Service

A bronze plaque "in recognition teria. of excellent service as president" was presented to Bob Vollmer of Convairiety's Fort Worth staff at the February meeting of the Industrial Editor's Association of Fort Worth.

Vollmer, who has served Con-IEA in 1958.



"Junior tried out your new electric drill today."



JUNIOR PRODUCTS—Robert M. Ditmore, Convair Fort Worth visitor from South Gate, Calif., checks products made by four Management Club-sponsored Junior Achievement companies.

Care of Blueprints Emphasized As FW Continues War on Costs

(Continued from Page 1) cover a 200-foot bay such as that an employee needs a blueprint to where B-58s are produced—but do a job—and can't find it.
twice as long as the Fort Worth Still more costs build up if twice as long as the Fort Worth

plant.
"And a lot of these prints, which cost an average of \$1.45 each to replace, can be eliminated if we take better care of the blue-prints we check out," said Poling.

"There's also the added cost of replacing an average of about 750 engineering orders every day because they've been lost or misplaced. That alone costs us more than \$14,000 a year."

Replacement EOs in a year would stretch from Convair Fort Worth to downtown Dallas—more than 34 miles!

A vitally serious cost which cannot be measured is that which

Firefighters Given Airplane Crash Data

Convair Fort Worth safety engineers and Carswell Air Force Base firemen presented an indoctrination program for civilian fire fighters recently at the Carswell base theater.

Over 400 civilian firemen from cities within a 100-mile radius participated in the program. It included such subjects as "Procedures for Reporting an Aircraft Crash and Safeguarding Vital Information," "Precautionary Steps in Airplane Crashes," and "Removing Trapped Personnel from Crashed Airplane."

At 250 a Day Clip

Convair Fort Worth people were properly "tagged" for 1959 after the recent sale of automobile licenses in the plant cafe-

A representative from the county tax assessor's office was on hand for three days to make it easier for Convair people to pick up their plates.

Jim LeSueur of employee services said that the representative vairiety since it began publica- brought out 10 boxes a day with cense plates per day.

B-58 Model Assists Recruiting Offices

Two of the prettiest models in town-Miss Fort Worth and a sleek B-58 Hustler on a standwere major attractions at the recent opening of the new Air Force recruiting offices in the Federal Building at Fort Worth.

Both of them get around. Especially the B-58 model.

Its December public appearance in the Federal Building was the most recent for the one-twentieth scale model. The B-58 model has traveled from the opening of Convair Astronautics in San Diego and the State Fair of Texas in Dallas to Air Force displays all over the United States.

In addition, the Hustler model has been to Hollywood and has been shown in several movies.

The model, made at Convair Fort Worth, has a wingspan of almost three feet and a length of almost five feet.

goes down the drain every time

some one removes EOs from a blueprint: another employee then may be hard at work, but making only scrap because the blueprint is obsolete.

Some specific ways blueprint users can help keep down blueprint costs:

1. Take care of the blueprints you use. 2. Keep EOs attached to the

blueprint.

3. Keep blueprint only as long as you actually need it for the job at hand, then return it. (Don't keep it because you "might need it later.")

4. Fold blueprint only the way it was folded in the first place. Other folds will tear it up, wear

5. Use something other than

a blueprint for a rug—or a lunch 6. Keep blueprints clean. If

you need to make notes, make them on a separate piece of paper—not on the blueprint. 7. Comply immediately when tained from Ellis.

you receive a notice to return

Jr. Achievers **Tour Factory**

Sixteen Junior Achievers from the four Convair Fort Worth Management Club-sponsored companies were taken on a conducted tour of the Convair Fort Worth plant recently in recognition of top sales efforts.

Honor guests were the four leading salesmen in Novair, Convariety, Wax-Wicks and Con-Ducts since the beginning of the 1958-59 Junior Achievement year, which corresponds with the regular school year.

The youngsters assembled at the JA Center where a Convair bus picked them up and took them to the plant. Upon arrival, they were briefed on the division's organization and functions after which they were escorted through various working areas of the factory.

After seeing how the supersonic B-58 is built, they inspected the finished product, a complete Hustler.

M. J. Scott, JA committee chairman for the club, was in charge of the tour.

Mar. 31 Deadline Set For Applicants For **Convair Scholarships**

Deadline for applying for the 1959 Convair Fort Worth sons scholarships is March 31.

Applications are still being picked up from J. B. Ellis, industrial relations administrator-engineering, on the second floor, north end of the administration building.

In order for a son or stepson to be eligible, the parent must have worked at Convair five or more years.

To qualify, applicants must be high school seniors or have graduated not more than two years before. They must be in the upper half of their classes scholastically and must have taken

the college preparatory course. Further information may be ob-

Winners will be announced in

FW Dept. Streamlines System For Handling ESs and CIPs

New streamlined handling of status as to acceptability, instal-Improvement Proposals in inspection-production department at Convair Fort Worth is cutting expediting installation of costsaving ideas.

"By installing ideas sooner, we make bigger overall savings," explained T. E. Hoffman, Dept. 27 chief.

follow up to make certain that a bright idea doesn't get "lost" or Parmeter.

tained by Hoffman's secretary, unless one is already installed. Carol Nelms. It indicates the ES subject, date routed and returned, gineering.

Employee Suggestions and Cost lation date, estimated savings and date of award.

Upon receiving an employee's first ES or CIP, Hoffman sends days from processing time, and the employee a personal letter of appreciation.

Ideas submitted through industrial engineering's suggestion realize quicker savings—and thus section are routed by M. J. Scott to the department head concerned. In turn, they route the ideas to appropriate superinten-The new plan, with a built-in dents, who are given one week to evaluate and develop a reply.

Scott said that the new plan bogged down somewhere along has improved handling of sugthe line, was devised by G. H. gestions and CIPs in Dept. 27, and recommends that other de-Key control is a log book main- partments consider similar plans,

Two of the other larger de or CIP number, the date, the empartments which already use ployee's name and section, the similar plans are tooling and en-



LOGGING SUGGESTIONS — T. E. Hoffman, right, Convair Fort Worth's chief of inspection production, goes over Dept. 27 suggestion log book with secretary Carol Nelms and G. H.



Fort Worth and Daingerfield

EDITION

Fort Worth news office: ext. 2961; Daingerfield news

SAN DIEGO, POMONA, ANTELOPE VALLEY, VANDENBERG AFB, CALIF.

AFMTC, CAPE CANAVERAL, FLA., FORT WORTH, TEX.

Safe Practices A Key Point in **Cost Reduction**

When you save your neck you save your check. .

This pointed barb will be hammered home throughout Convair Fort Worth this next two weeks in a new phase of the continuing war on costs.

"But this time, the emphasis is on employees saving their own money," said B. G. Reed, assistant division manager and chairman of the plant's general safety committee.

"This is because almost every accident costs an employee dollars and cents-even though he is protected by workmen's compensation on the job, and by group insurance off the job.

"These never cover all the costs, and the employee winds up paying part of it out of funds which otherwise could go into purchases he needs, or better yet into savings."

Posters prepared by illustra tions group of engineering will go up throughout the plant Thursday reminding employees that to "keep paychecks coming, knowing safe practices is not

Safety Tips

1. Make sure of your own personal safety and that of your family. No one else can do it for you.

2. Know and follow safe practices on the job, on the road and at home.

3. If you don't know the safe procedure, ask.

4. Think the job through before you start.

5. Look out for others as well as yourself.

6. Keep alert-and report hazards to your supervisor or to a safety engineer.

enough." They've got to be practiced to be effective.

The same theme will be emphasized in the new display going up today at the factory entrance. It also will be discussed in safety committee meetings held through out the plant, according to Fred

Temple, chief safety engineer. "All of us know it's to our own best interest to follow safe practices on the job, on the road and at home," said Temple.

"But it just happens that this helps to improve our cost per-(Continued on Page 8)



AF TRAINEES-Connie Hollingsworth at Convair Fort Worth pins special badge on T/Sgt. E. J. Heisey of Carswell AF Base B-58 field training detachment. Heisey and dozens of other AF personnel began B-58 training at Convair Fort Worth last week.

Nine Classes Under Way As AF Training Steps Up

program for Air Force B-58 personnel began accelerating toward a peak in May.

High point will come when 15 classes will be going at the same time. Between now and August a total of approximately 1,175 AF people will have gone through 76 classes.

H. C. Anderson of personnel department's educational services section is project coordinator. Instructors are Convair men from customer service department who are familiar with the various systems on the double-sonic bomber.

Among the 23 key customer service personnel are B. B. Mc-Glochlin and E. L. Patrick. Air Force liaison is handled by M/Sgt. Francis McCoy of the Air Training Command.

Purpose of the courses is to familiarize Air Force people with the B-58 in order that they, in turn, may go back to bases to instruct crews which will actually operate, service and maintain the aircraft.

"This is a vital link in our overall B-58 program," said Anderson. "With the complexity of today's sophisticated weapon systems—and the B-58 is one of the

Nine classes got under way | most sophisticated of them allthis month as Convair Fort it is more important than ever Worth's comprehensive training before in the history of the aircraft industry that we give the Air Force all the information and know-how at our command.

"The Air Force will thus be in a position to make the most effective use of the B-58.

"This, in turn, puts Convair in an improved light with the customer-and incidentally improves our prospects for additional Air Force business in the future."

Air Force people taking the Convair training range all the way from airmen/1C to colonel.

Courses being taught include the following: "Supervisors and Planners," "Subsystems Unique to the B-58," "Pilots' Ground School," "Ground Power and Support Equipment," and "Instrumentation Repair."

On-the-job observation is made available for the AF people through cooperation of Convair personnel in departments headed by R. W. McGuffee, development manager; E. E. Finch, modernization manager, and C. B. Clark, electronics superintendent.

To New Post

Ralph L. Bayless, chief engineer of Convair SD, has been Convai engineering, J. V. Naish, president of Convair, announced.

In his new assignment Bayless will report to R. C. Sebold, Convair vice president-engineering, and will super-

vise engineering activities in all Convair's oper-

ating divisions. William W Fox, assistant chief engineer of the SD Division, will replace Bayless as chief engineer reporting to B. F. Coggan, Con-

R. L. Bayless vair vice president and SD Di-

vision manager. Richard P. White, former chief technical engineer, will become assistant chief engineer for product design, replacing Fox.

In announcing Bayless' assignment, Naish said that the new post of director of engineering was created to give additional strength at top management level itself will be made next October. to the company's expanding en-

4,000 Youngsters Expected to Join Easter Egg Hunt

Over 4,000 youngsters are expected to look for some 12,000 eggs at the annual Convair Recreation Association plantwide Easter egg hunt set for 2 p.m. on March 28 at

In addition to the hidden hen and candy eggs, the youngsters will be searching for "prize eggs." These eggs will have numbers on them and can be cashed in for prizes, according to Dave Smith, master of ceremonies, and Mrs. Frank W. Davis, in charge of hiding them.

Children will be divided into four different age groups. The three-year-olds and under will meet at the softball diamond. Special signs will indicate where four and five-year-olds should gather, as well as the six to eight-year-olds and the nine to 12-year-olds.

Roy Jarl of employee services will be in charge of egg hiding, and Betty Bowden and Winnie Leonard will see that they're all dyed properly.

When the youngsters start out to look for the eggs, L. M. Mayfield will be responsible for starting line duties.

The miniature train will be in operation all day.

Gearing the overall hunt is the plantwide recreation committee made up of Jarl, Andy D'As-

cenzo and Jim Shackelford. Wives of CRA Council members will color the eggs for this annual CRA children's event at Fort



EASTER PARADE—Among those who'll be in Easter parade this year will be pert Anita Brown of Dept. 24-7 who poses in pilot's seat of B-58 with "Texas size" jackrabbit, created by W. J. (Dub) Ballow of illustrations.

Acceptance Crew For B-58 Named As Training Flights Completed

rides in the B-58 when Convair officer, later served as instructor Fort Worth's newest Air Force flight crew checks out a Hustler B-52s. prior to acceptance by the Air Force.

The crew qualified to check out B-58s after graduation from the Convair Fort Worth ground school and five training flights.

Maj. J. B. Thomson, who heads the acceptance crew for the Air Force, comes to Fort Worth from Kelly AFB where he has been Greenland and worked as ECM chief test pilot for the past five

A native of Ashland City, Tenn., Major Thomson has 18 years' service, served in Newfoundland before the war, in Europe during the war and in Turkey prior to his assignment in San Antonio.

Navigator of the B-58 crew is Capt. A. Z. Doka, from Newark, N. J. With 16 years service, Captain Doka was in Europe flying in B-17s as bombardier during the last war. He went to the

MANAGEMENT CLUB **MEETS TOMORROW**

Division Manager Frank W. Davis will tell Convair Fort Worth Management Club members "where we've been, where we are, and where we're going . . . at tomorrow night's meeting at 6:30 p.m. at the Lake Worth Ca-

Winner of the 1958 President's Award will also be revealed from among the nine candidates that originated Cost Improvement Proposals which resulted in savings of more than \$25,000 each. Actual presentation of the award

Social hour begins at 5:30 p.m. with dinner starting at 6:30 p.m. Ballard, defense operator.

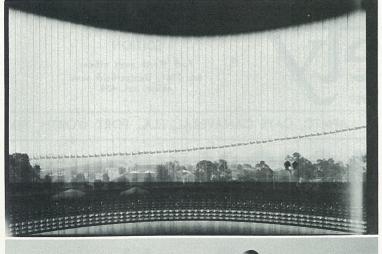
A total of 50 years' experience | Pacific in 1946 as wing supply crew member in B-50s, B-47s and

> Riding in the defense operator's seat is Capt. Robert Ballard, a native Texan. His 15 years service includes assignments as combat navigator in Convair B-24 Liberator bombers in Europe. He was also an Arctic expedition navigator for the Northeast Air Command out of Officer on a B-52 crew at Rapid City, S. D.

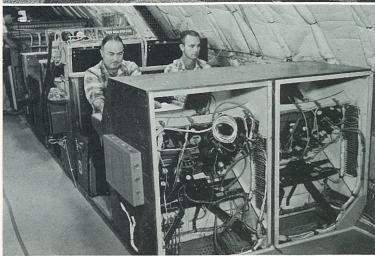


B-58 "BUYERS" - Pictured here is new AF B-58 acceptance crew. From bottom, Maj. J. B. Thomson, pilot, Capt. A. Z. Doka, navigator, Capt. Robert









WATCHING IT TICK-As part of data-gathering operation on performance of first Convair 880 during tests Jack Gavett (center), instrumentation photographer, takes pictures like top reproduction during takeoff and landing. In lower picture is instrumentation recording center in plane No. 3 with Gene Candelore, Leo Mazon, and W. A. Traxler (all of Dept. 31) at posts occupied by flight instrumentation engineers during flight.

Instruments Leave 880 Not a Speck of Privacy

Base building, a Convair SD cameraman is recording takeoffs and landings of the No. 1 880 jet transport.

As one cog in the machinery that records every pulse beat of the plane during flight testing, Jack Gavett, instrumentation cameraman, points a Fairchild photographic flight analyzer at Lindbergh Field's main runway to catch the 880 in action.

Rate of acceleration and climb, together with braking, is graphically recorded with a complete bilities. image of the plane caught in every 1.7 degree of motion on an 8x10-in, glass plate. Digital within a half of one per cent," Digital counters on the camera are explained T. R. King, foreman caught in the photographs to in charge of installing the ingive the exact elapsed time in strumentation in the test planes. seconds and micro-seconds.

While the camera is shooting pictures of the 880, a complete instrumentation recording center in the plane itself is keeping track of every function within a multitude of systems.

The most modern electronically-controlled instruments record every thermodynamic and aerodynamic value-every test factor pertaining to power plant performance and aircraft stability and control.

"It is a far cry," said R. B. Thompson, general foreman of experimental instrumentation, "from the days of 'knee-pad'

Walt Withee on Tour Of Bases in Europe

W. W. Withee, Astronautics' assistant chief engineer-test, is on tour this week of North Atlantic Treaty Organization bases in Europe. He is with a party headed by Lt. Gen. C. S. Irvine, AF deputy chief of staff-materiel. station in Bldg. 54.

From a spot high atop a Marine | recording when pilots jotted down flight test data on notebooks strapped to their knees."

Present-day instruments can take down 20 values per second! Data cameras, shooting into two-way mirrors, allowing visual monitoring of gauges; multi-channel temperature recorders; digital counters which measure fuel quantity and rate of consumption within a tenth of a gallon are but part of the instrumentation equipment which takes all the guessing out of the 880's capa-

The first two planes which go through the flight test program (Nos. 1 and 3) are equipped with about 6.000 pounds of airborne

instrumentation.
While in-flight data is being recorded right in the plane itself on film, graphs, or tape, information is being telemetered to the engineering test center. It takes data handling personnel several days to reduce data gathered during a normal two-hour test flight.

Flight instrumentation of SD experimental (Dept. 31) installs all test equipment while the plane is on the production line. More than 20 transmitters are installed on the wings and tail. About 50,000 feet of wiring connects the 10,000-15,000 electrical

Engineering instrumentation (Dept. 6) experts man the recording center during flight as well as the data handling ground

Wear and Tear of 50,000 Flights Reproduced in 880 Water Test

20 years—will be measured in tests starting soon at the Convair SD test facility at the seaplane

The 880 pressure cycle article (No. 99-4) is now in place in the large 20x110-ft. hydrostatic tank. fuselage with stub wings, will and to record fatigue cracks and Convair seaplane transport. float submerged under a foot or so of water with the wings, protruding through "rubber boots" in the tank's walls, supported on jigs outside of the tank.

The tank will be filled with water and actual testing started in about two weeks, said W. E. Wise, structural test lab group engineer. The test program is scheduled to continue throughout most of the next year.

It will take at least four hours to fill the tank with the 394,994 gallons of water needed to cover the fuselage which takes up three-fourths of the space in the tank. (In fact, the snug fit leaves only 10 inches at one end and six at the other!) Water will flow into the plane through open cargo hatches at the same time the tank is filled. Divers will go into the tank after it is filled and close the plane hatches.

The test program will be divided into three distinct sections: fatigue, fail-safe, and allowable damage tests.

During fatigue testing, which will take about four months, the 880 fuselage will be loaded at 11 points to simulate actual air loads of flight, landing, and taxiing. Aluminum straps on the plane are attached to steel whiffletrees under the fuselage which, in turn are connected to hydraulic cylinders outside the tank. Electrical controls set up automatic cycling periods to put the various loads on the fuselage and representative wings. A dry run of the cycling system will be made this week before the tank is filled.

To load the fuselage for inflight conditions, the hull is pressurized (that is, more water is pumped into the already full fuselage, causing it to expand) at the same time load is applied. Landing is simulated by release of water pressure and reduction of flight load.

Principle of fatigue testing is to start with a production structure and keep repairing it to see just how the life of the plane can be extended. But during the next testing series - the fail-safe any damage done to the fuselage under loading is purposely not repaired. Cracks are measured for rate of growth to see how large they can be before actually endangering the plane.

"During the last part of the testing, allowable damage tests, failures will be allowed to grow until a major break appears in the fuselage or a wing breaks in two," explained Wise.
"Thus, an accurate timetable

Dempsey Taking Lead In Arrangements For SD Science Fair

A group of Convair men, headed by J. R. Dempsey, Astronautics manager, are taking active part in arranging the Fifth Annual Greater San Diego Science Fair set for early April.

Dempsey is chairman of the board for the 1959 fair. R. F. Smith of Astronautics is chairman of the committee on judging and awards. He is being assisted by E. W. Thurston Jr., also of Astro. LeRoy Fitzgerald of San Diego Division heads the finance committee, while Ronald Nall of the same division is in charge of scientific tours.

San Diego County science students in the 7th through the 12th grades participate, preparing scientific projects for judging. A series of school competitive events are held during March. tion of training facilities at Shep-On April 4-5 a display of winners pard AFB, Texas, and Chanute will be held in Balboa Park.

Just how much punishment a can be established on how long damage growth. Convair 880 fuselage can take in an 880 will fly after a crack ap-50,000 flights—or a lifetime of pears before it will have to be grounded for major overhaul, or be too damaged for repair."

Obed Bobbitt, engineer on the Dept. 31) who will be diving into the induced cracks and damages the tank several times a day to at close range. The same tank

underwater training course in preparation for their duties in the huge tank.

Structural tests are being conproject, will head a team of Earl ducted under water as a safety Moore and Bob Callahan (both of measure for the men recording The test article, a complete 880 check the fuselage for failures was used for tests on the R3Y,





INTO THE TANK—A Convair 880 fuselage swings aloft as it is placed in huge hydrostatic tank at SD's structures lab facility at seaplane ramp. Fuselage will be completely submerged when tank is filled soon to begin long series of under-water tests.

Omaha, Spokane and Topeka Slated to Get Atlas Bases

Air Force information.

manded by Gen. Thomas S. Power, will direct activities of Atlas bases. SAC has announced that the Atlas is slated to achieve operational capabilities by mid-1959.

Initial Atlas complex is nearing completion at Vandenberg AFB, California. SAC's 1st Ballistic Missile Division, commanded is a combined operational and this month. training base.

Work is well advanced on an Atlas facility at Francis E. Warren AFB near Cheyenne, Wyo. Next Atlas bases will be at Offutt AFB, Omaha, Neb., with work slated for start in early 1959; Fairchild AFB, Spokane, Wash.; and Forbes AFB, Topeka, Kan. Others are to follow, and Convair Astronautics will assist the Air Force in the installa-AFB, Illinois.

Initial Air Force ballistic mis- | Atlas squadrons at Vandensile squadrons equipped with the Convair Astronautics-built Atlas assigned to the 15th Air Force ICBM have been assigned to two with headquarters at March AFB, commands, according to latest Calif. Those in Kansas and Ne-Air Force information.

Strategic Air Command, com
Braska report to the 2nd Air
Force with headquarters at Barksdale AFB, La.

Seven U.S. Senators **Tour Astro's Plant** With Dempsey Host

Seven members of the United States Senate, plus members of by Maj. Gen. David Wade, has their staffs, were special guests headquarters at Vandenberg. It at Convair Astronautics early

> The visitors were Sens. Norris Cotton (R-NH), Alan Bible (D-Nev), Howard W. Cannon (D-Nev), Thomas E. Martin (R-Iowa), Frank E. Moss (D-Utah), Roman L. Hruska (R-Neb), and Strom Thurmond (D-SC).

Host for the one-day visit and tour of Astronautics plant facilities was J. R. Dempsey, Astro manager, and members of his staff.

The senators came to San Diego by air following a tour of Vandenberg AFB.

First of B-58 Trainers Due For April Delivery

Training devices the Air Force will use to teach B-58 crews how mobile training units last April, to fly and operate B-58 systems, and the first unit to be used is as well as equipment to train support and maintenance people, will be supplied by Convair under new agreements worked out last tenance people. month with the Air Force.

These will include such items as flight simulator, navigation draulic and landing gear system, trainer and defense system operator trainer.

C. H. Zimmerman, assistant project engineer, pointed out that the new authorization makes Convair Fort Worth weapon system manager not only for the B-58, bought directly from manufacturers.

According to FW contracts department, special mobile training units which make up 19 of the aircraft are also being made at responsible.

Convair started working with scheduled to go out sometime

The 19 areas covered in the training program include the hythe airplane fuel system, the flight control and autopilot system, the pilot's ejection seat and canopies systems and the AC

electrical power system.

Also, the DC electrical power system, the spike positioning sysbut also for training devices tem, the primary navigation syswhich AMC has previously tem, the civil navigation system and the IFF and beacon system.

Other systems included are the command long range emergency radios and interphone system, fire control, passive defense sysapproximate major areas of the tem, air conditioning and pressurization system, J-79 engine the FW plant with Zimmerman fuel control system, TFE cover assemblies, power distribution.



TRAINING UNIT - Here O. Story, left, Fort Worth general foreman for development manufacturing, and C. H. Zimmerman, assistant project engineer, go over B-58's spike positioning system, one of Convair FW's recently completed mobile training units production order calls for ten. for the AF.



CONFERENCE-Among reliability and quality control men attending General Dynamics Reliability Panel hosted by Convair San Diego Division recently were front row (left to right): R. Jackson and R. Jacque of Stromberg-Carlson; D. R. Archibald, Astronautics; A. C. Mc-Master, Pomona; J. Y. McClure, Fort Worth; Ray Golemb, Stromberg-Carlson; Dr. A. M. Small, San Diego; A. Dohna, Electric Boat; A. B. Oxley, Canadair; J. L. Coburn, Fort Worth. Standing (left to right) are R. K. Hood, Astronautics; T. A. Vogel, Pomona; John Murphy, Fort Worth; Sherman Weiner, Stromberg-Carlson; H. J. McKown, Canadair. Carlson; R. H. Gilliland, San Diego; H. L. McKeown, Canadair.

Fort Worth's McClure to Chairman Dynamics Divisional Reliability Panel

Ways to achieve more complete interchange of reliability services and information among all General Dynamics Corporation divisions were reviewed and kicked off Feb. 27 at the second meeting of the General Dynamics Reliability Panel hosted by Convair San Diego.

J. Y. McClure, Convair Fort Crowley who resigned recently from his General Dynamics post in Washington. V. Dolson, acting reliability manager at Convair Fort Worth, continues as deputy chairman.

Attending the panel meetings in San Diego were representatives of all product manufacturing divisions of General Dynamics except Liquid Carbonic.

ter and bylaws under which the product reliability, shortened pro-Convair SD headed the charter tomer use phaseout."

and bylaws committee.

The panel is made up of repre-

In the words of the charter, "the increasing necessity for re-J. Y. McClure, Convair Fort liability of products developed B. Richardson, General Dynamics worth manager of quality con- and manufactured for military senior vice president-engineering. trol, was elected new panel and civilian use requires that chairman. He succeeds J. J. broad corporate resources be utilized" to the utmost.

The charter further states that reliability knowledge and prac- various divisions. tice through information expromote effective, organized approaches to reliability handling. about four months with Stromproaches to reliability handling.

Among other actions taken, Objectives of the reliability panel members approved a char-effort are described as "increased panel will operate in the future, duct cycle time, and lowered cost McClure said. Dr. A. M. Small of from product inception to cus-

sentatives from each General Dynamics division. It reports to L

Among a number of presenta-tions made before the panel in February was a Convair Fort Worth study in progress to dethe panel operates to serve as a velop a General Dynamics "refocal point for the corporation's sources manual." This will catahandling of reliability matters, log unusual capabilities and fato increase breadth and depth of cilities which are available at

McClure announced that next change between divisions, and to meeting of the panel will be in



LONELY-Looking lonely and cold, B-58 stands outside Convair FW plant with covering of snow. Just two days before, temperature had been 87 degrees! Last month's snowfall was first of season for Fort Worth. It was gone in a day.

Tents to Shield **Outdoor Crews**

"Portable garages" will soon shelter Convair FW and Air Force people working on the tail and after-fuselage sections of the B-58 Hustler.

All-purpose rubberized nylon tents are being "sewed up" Convair SD's Plant 2, especially designed to protect personnel from both "hot" and "cold." Whether it be strong Alaskan winds and 40-below temperatures or sand, wind, sun and torrid climate—such as the 135-degrees sometimes registered over pavement area at Convair FW.

First finished tent was sent to Fort Worth for a "fitting" last month. It, in turn, will be shipped shortly to Eglin Air Force Base in Florida, where it will be used by crews working on a B-58 undergoing special tests.

Dept. 280 had the second ready for delivery last week. Initial

Roughly the size of a one-anda-half car garage, the tent is mounted on a platform of steel tubing. A stairwell provides ac-



COLLAPSIBLE—Mary Nelson (foreground) and Susan Craiger (both SD Dept. 280), inspect tent to be used by crews working on tail section of B-58 Hustler, shortly before shipment to Convair FW.

B-58 after-fuselage.

vided by electric or engine-driven

The entire tail turret package can be swung open inside the C. T. Boyle, SD Dept. 280 forecess to the main working level tent. In addition, a separate (un- man, said. It is designed to withwhich is slightly lower than the attached) stand is provided which stand winds up to 60 mph.

will enable personnel to reach Heat or air-conditioning is pro- the radome area from the floorwork level.

The tent is zipped into shape with 44 rubberized nylon zippers,

Field Office Formed At Huntsville, Ala.

Harry T. Dillon, project staff engineer at Convair Pomona, has been named manager of a new Convair field office to be opened April 1 at Huntsville, Ala., T. G. Lanphier Jr., vice president and assistant to the president, announced this week.

Dillon has been in charge of operational support aspects of Convair's Tartar guided missile program for the U.S. Navy at Pomona since 1953.

A native of Hudson, Mich., Dillon was graduated from Kearny electronics engineer in 1952.





REFINEMENTS-Mid-air refueling techniques of B-58 are being refined both in air and on ground. In top photo is ground test setup at Fort Worth with KC-135 tanker parked on ramp about 10 feet higher than B-58's apron. In air shot, Photographer Aaron Murray's picture shows how refueling looks from tanker's boom operator post.



GOIN' FISHIN'—Guard Buddie Tanner, left, was surprised in the guard squad room at Convair Fort Worth recently when his friends presented him with fishing equipment to use in retirement. Capt. Dan H. Hardy of industrial security at right.

Says Farewell

Veteran Guard at Fort Worth, Ex-Pro Ball Player, Retires

Nostalgia filled the industrial recommended me to the Waco security guard locker room at Navigators," he recalled. "That's Convair Fort Worth one day this how I got my start of 14 years month as a Convair veteran and former pro baseball player said goodbye to friends during a brief the Wichita Falls team, later befarewell gathering.

Buddie Tanner, known to thousands of Convair employees, said the gathering reminded him of another much like it in another locker room. That was when he retired from baseball after playing in the Pacific League and Texas League in 1940.

He came to Convair Fort Worth in 1943 shortly after the plant opened.

He plans now to retire to his home in nearby Walnut Springs where he first played baseball as a youngster on a sandlot.

"We were having a picnic one day, and a fellow from Waco was

MAGNUSON GIVEN POST WITH ASTRO

W. E. Magnuson, veteran Convair executive, has joined Convair Astronautics as assistant to E. A. Reynolds, manager of product

Reynolds indicated this week Magnuson will handle problems associated with providing spares for operational support of initial Atlas ICBM facilities at Vanden-

Magnuson came to Convair at Vultee Field in 1940. He worked on the experimental XB-36 program, transferring to Convair Fort Worth in 1945. He was superintendent of fabrication there before assuming the job of Fort Worth resident office manager at Convair San Diego in 1956.

Computer Lecture Series Will Start

D. H. Daggett of Convair Fort Worth will kick off the first in a series of lectures on computers with his "Introduction to Digital Computers" set for 7:30 p.m. on March 31 at the Children's Mu-

Daggett is a senior aerophysics computer group of the technical design section.

The series will be held at the Children's Museum on alternate Tuesdays starting with the March 31 session. They are sponsored by the Fort Worth section of the Institute of Radio Engineers.



came its manager in 1924-25. In addition to his stint there, he also played in the Piedmont and Pacific Coast Leagues.

Tanner had numerous friends in the big leagues. Dick Kerr, former lefthanded pitcher with the Chicago White Sox, was one of his cronies.

Even in retirement, the former baseball shortstop plans to take an active part in sports—he's been neglecting his fishing.

"I'll be glad to help my wife with the chores around the house as long as it doesn't interfere with my fishing," he said. Then he picked up the rod and reel there who liked my playing and fishing tackle his Convair friends had given him, and walked out the door.

Pomona to Conduct Air Traffic Study

Convair Pomona has been awarded a \$140,114 contract to conduct an air traffic flow study of three of the nation's busiest airport areas.

Convair will study air traffic flow and air traffic delays at Oakland and San Francisco airports, Hamilton Air Force Base and Moffett Naval Air Station.

The San Francisco Bay area survey is to be completed by June 30. The contract was awarded by the Federal Aviation Agency.

Fitzpatrick Chief Pilot at Holloman

John M. Fitzpatrick, senior test pilot, has been named chief pilot at Holloman AFB for Convair SD, M. C. Terry, facility mana ger, announced.

In his new assignment Fitzpatrick will direct the flight operations of the armament development program for the F-106.

Fitzpatrick had served in the Air Force for 11 years before joining Convair SD in 1953. An engineering test pilot, he had been assigned to Edwards AFB where he assisted in the performance development of F-102s and

'The Soviet Engineer' Topic of SAE Talk

The San Diego section of the Society of Automotive Engineers will hear a talk April 1, 6:30 p.m., on "The Soviet Engineer" at San Diego Hotel.

Secor D. Browne, a mechanical engineer who played an important role in the recent exchange of technical and scientific information between Russian and American libraries and universities, will address the group.

The May 16 meeting of the local SAE chapter will be a dinner dance at San Diego Country Club starting 6 p.m. with cocktail hour.



DECORATORS—Karl Busch, SD engineering illustrator, watches Wallace Butterfield and Gerald Blumenthal (Dept. 15-6) put finishing touches on models of Convair 880 marked with insignia of different airlines.

Airlines' Intricate Markings Reproduced on Sales Models

men at Convair San Diego ply terior plane configuration such their artistic brushes to faith- as windows, etc., are reproduced fully produce airline markings in on decals by the silk screen prominiature on models of Convair's cess, then applied to the plane newest planes.

Realistically marking 27-in. models of Convair jet transports, the 880 and 600, which are used in sales presentations to commercial airlines all over the world, are experts of the training devices group of service publications' illustrations section.

Located in an "off-bounds" area at the north end of Bldg. 4's second floor are a handful of engineering illustrators meticulously copying the intricate markings which identify all of the world's

"Every one of the men in the group has a wide artistic background or extensive experience in model and training devices work," said R. W. Seehorn, assistant supervisor in charge of the group.

Karl Busch, engineering illustrator directly responsible for the work, said that present markings of the airlines must be adapted to fit the jet transport models. Drawings are made from sketches, postcards, or advertise-ments. "Many times it is difficult to find a reproduction of the markings of foreign lines," Busch said. "Then, a great deal of time is spent by our illustrators in research to be sure that we have the most current and up-to-date markings before we begin reproduction.

Transport.)

A small group of ingenious | The insignia, lettering, and exafter the striping is done. planes are masked by hand and striped by air brush.

> In addition to marking models, the training devices group con-structs the 880 and 600 training aids used by customer service and production flight training.

> According to P. H. Bray of Convair's commercial sales, the 1/57th scale cast plastic jet transport models have gone out to airlines in all parts of the world since last August. The models, themselves, are furnished by a Los Angeles commercial

The model shop in SD experi-



SAS 880 - Showing how the real thing will actually look, model bears airline's markings.

mental department lends a hand in the striping whenever needed and also manufactures the bases (One of the most colorful and for the 17-in. models. The shop is intricate is a model in the works responsible for the striping of bearing the dragon insignia of the large 5 to 6-ft. Convair plane the National Chinese Civil Air models used for exhibition purposes.



COMPETITION?-Maybe, but on a small scale. Larry Widmer 10, son of R. H. Widmer, Convair Fort Worth chief engineer, shows off his model plane work.

Convair Son's Aircraft Plant **Produces a Fleet of Models**

Ten-year-old Larry Widmer is since the PBY Catalina. adding competition to the aircraft engineer in the airborne digital industry in Fort Worth these days -but on a small scale.

> Larry, 10, son of Convair Fort Worth's chief engineer, R. H. Widmer, operates his own aircraft manufacturing "plant."

> "Larry's worked on model planes for people all over town,' said Mrs. Widmer. "He recently finished patching up a model B-32 Dominator for Amon Carter Jr."

Having been interested in model airplane building since nursery school days, he taught himself how to put the models together from kits, like many another Convair son.

The first plane he built was several days ago. the recently memorialized B-36, although he's now put together everything Convair has ever built in engineering.

His room is filled with models of F-100s, F-102s, B-58s, F-104s and even Voodoos. Larry said it took him the longest to build the F-102.

Not only in the aircraft-making business, he is also interested in space and has several missiles in his collection. Just recently he sold FW Division Manager Frank W. Davis a new missile for his office and received a whole dollar for it, too!

The August C. Esenweins are probably Larry's biggest customers. Jarvis, one of the Esenwein daughters, took a station wagon load out to San Diego when she drove out to join her parents

Young Widmer says he hopes to follow in his father's footsteps



"I have days when things go right, and days when they go wrong . . ."

NEWS FROM OTHER DYNAMICS DIVISIONS

General Dynamics Corporation, created in April, 1952, as successor to Electric Boat Company, is composed of six divisions and Canadian subsidiary, Canadair Ltd. of Montreal, airframe builders. The divisions are:

Convair, head offices at San Diego, Calif., aircraft, missiles and space systems.

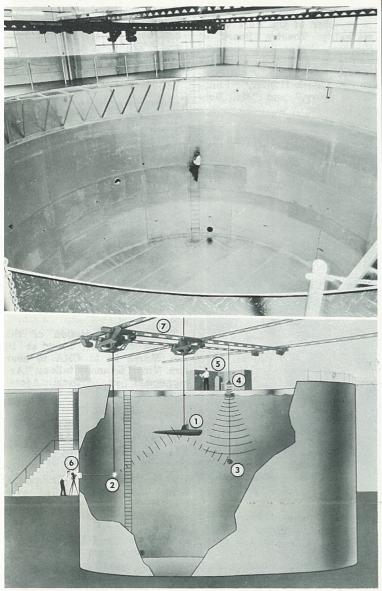
Electric Boat of Groton, Conn., submarines.

Stromberg-Carlson, of Rochester, N. Y., telecommunications, electronic equipment.

Liquid Carbonic of Chicago, Ill., carbon dioxide producer, industrial and medical gases.

General Atomic of San Diego, Calif., nuclear research, development, production.

Electro Dynamic of Bayonne, N. J., electric motors, generators.



TEST FACILITY—Nation's largest indoor underwater acoustic test facility went into operation last month for Stromberg-Carlson. It is 48 feet in diameter and 30 feet deep. Sketch shows (1) model submarine serving as target; (2) underwater spark for echo ranging; (3) hydrophone receiving echo from sub; (4) loudspeaker for testing transmission of sound from air above; (5) control console; (6) camera; (7) overhead tram to position devices.

Skipjack Proves Itself World's Fastest Sub

the Navy's newest submarine, returned to her fitting-out pier at Submarine Force, U. S. Atlantic Electric Boat Division from her Fleet, and Atomic Energy Cominitial builder's sea trials. She mission. made the highest speed that has ever been made by any sub-

clear-powered attack submarines. their high state of training. She has a streamlined advance hull form with a single propeller marine. and improved ship controls. The nuclear reactor is of advanced design with longer life and higher power.

Skipjack's commanding officer, Cdr. W. W. Behrens Jr., his officers and crew put the ship through two days of intensive maneuvering. She performed an WASHINGTON — The maneuvering. She performed superbly for them and the technical representatives assisting with the trials. These representatives, headed by Vice Adm. H. G. Rickover, included personnel from the Bureau of Ships, David Taylor Model Basin, Westinghouse, Elec-

Taylor Transferred

To Rochester Post ROCHESTER—Henry M. Taylor has been appointed manager of military marketing for Stromberg-Carlson's electronics division. He was formerly marketing manager for Stromberg-Carlson San Diego and prior to that was dry Co. and Raytheon.

GROTON-Last week Skipjack, tric Boat Division, Supervisor of

On his return to Groton, Vice Admiral Rickover said he was very pleased with the trials and Skipjack is the first of the particularly commended the offi-

This is the world's fastest sub-

Stromberg-Carlson

WASHINGTON - The Army last month reported award of a \$12.6 million contract to Stromberg-Carlson which will increase ground-air mobility for combat communications facilities.

High echelon field headquarters will be provided with standard aluminum shelters, completely equipped for rapid installation of communication and electronic equipment, all designed for easy air or ground transport. The communication system was developed by the U.S. Army Signal Corps to provide a mobile central unit for communication networks. The contract will be executed by Stromberg - Carlson's electronics with American Machine & Foun- division. The shelters themselves will be sub-contracted.

It's a Close Call For Howard Golem

Howard Golem, Convair's director of procurement, must have had a shock when he read a headline in a local newspaper:

"Golem To Be Shot Behind Iron Curtain."

He was considerably relieved to read the amusement page story and learn that "Golem" was a silent motion picture, called a medieval classic, which will be refilmed.

Medical Academy Elects Dr. Leverett

Dr. J. K. Leverett of Convair Fort Worth last week was elected to membership in the American Academy of Occupational Medi-

Dr. Leverett, chief physician, was notified of his election by the academy's president, Dr. Leonard Goldwater.

The academy devotes its annual meetings largely to study of the latest advances in the handling of occupational medicines.

William Barnes, 64, Pomona Guard, Dies

Funeral service for William K. Barnes, 64, Convair Pomona guard, was conducted March 7 in Pomona. Barnes, who had been under the care of a doctor for a month, died March 4, the day he was to have received a Convair 15-year service pin.

Barnes was survived by his wife, Mrs. Grace Lee Barnes of Pomona, four daughters, two sisters and a brother. Interment was in Greenwood Cemetery in San Diego.

New Staff Members Join General Atomic

SAN DIEGO - Drs. David J. Peery and John C. Stewart are new research staff members of General Atomic Division, according to Dr. Edward C. Creutz, director of John Jay Hopkins Laboratory for Pure and Applied Science.

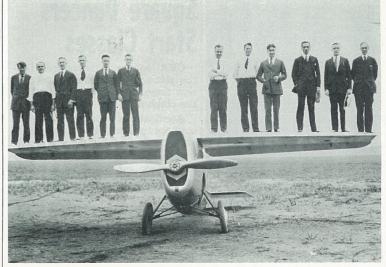
Dr. Peery is a former head of the aeronautical engineering department at Pennsylvania State. Dr. Stewart earned his doctorate in astronomy and physics at California Institute of Technology and is an expert in atomic reactor theory.

MICRO RECORDER BUILT FOR NAVY

SAN DIEGO - Stromberg-Carlson has installed an SC 4010 high speed microfilm recorder at the Naval Proving Ground, Dahlgren, Va. The system is capable of recording up to 15,000 characters or 10,000 graph plotting points per second.

WELDING ENGINEER

GROTON - Ernest H. Franks has been named operations department welding engineer at Electric Boat Division, responsible for providing technical guidance, direction and assistance to all departments concerned with production welding in operations.



FIRST RETRACTABLE—When Consolidated was formed, Dayton-Wright Airplane Co. designs were part of early assets. Here is Dayton-Wright racing plane of 1920, first U.S. aircraft with retractable wheels. Men are unidentified except for last three at right, Harold E. Talbott, president; G. M. Williams, general manager; Charles F. Kettering, vice president, of Dayton-Wright.

Consolidated's Founder An Army Aviator in '17

(Previous installments in this history of Convair have sketched the development of the Gallaudet Aircraft Co. up to the point where Reuben Fleet entered the picture, and touched briefly on Fleet's

29. Eight days later the country was at war with Germany.

After winning his wings, Fleet spent most of the war period in Washington in direction of aviation training. In the spring of 1918 he received new duty when the Post Office Department inaugurated the first regular air mail service between Washington and New York City. The Signal Corps supplied aircraft and pilots and Fleet was named officer in charge by Col. H. H. "Hap" Arnold, assistant Air Corps chief.

After civilian flyers took over the mail service in July Fleet sailed for England aboard the troopship Olympic. Arnold, who was on board as troop commander, was coming down with pneu-monia. He charged Fleet with correcting the unmilitary appearance of the aviation officers and chaplains. Recalling the voyage long afterwards, Arnold wrote:

The next thing I remember clearly was being carried to an ambulance on the Southampton dock . . . Not a sound was heard until a faint murmur reached us from ahead. As we drew closer the sound became more distinct. It was Maj. Reuben Fleet, marching his chaplains and Air Corps officers from Southampton to Winchester, at attention, in the rain, in the dark, at 11 o'clock at night. 'One, two, three, four. Damn you, chaplains, keep in step. One, two, three, four ... ' He was making soldiers of

After graduating from Bri-

Reuben H. Fleet, founding | tain's school for flying instructfather of Consolidated, was ors at Gosport, Fleet returned to among the first to be chosen for the U.S. and was stationed at aviation training in a new Signal Dayton as business manager of Corps Aviation Section program McCook Field and contract offiin 1917. He reported for duty at cer for the Air Service. At that the Army's Rockwell Field avia- time McCook was the home of tion school in San Diego March the Engineering Division which kept post-war aviation progress alive with a program of original design, prototype construction and rigorous testing. Fleet remained at this crossroads of military aviation from January, 1919, until the fall of 1922-negotiating contracts with manufacturers, purchasing material from suppliers, rubbing elbows with Air Service lawyers, engineers, and flyers.

> When he decided to quit the service and make his fortune in private industry, Fleet turned down executive jobs with two well-established companies (Boeing and Curtiss) to become vice president and general manager of the Gallaudet Aircraft Corp. at East Greenwich.

"I remember clearly why I chose Gallaudet," he has said. "Its financial backers embraced the wealth of the country-men like Harry Payne Whitney, who was worth \$200 million."

Gordon W. Graff, **Manager of Convair** Omaha Office, Dies

Gordon W. Graff, 44, manager of Convair's Omaha office since October 1954, died in the Nebraska city March 7. He had been in poor health for some

A native of Springville, N. Y., he received his B.S. in aeronautical engineering from the Aero-

nautical University, Chicago, Ill., in 1938. Before joining Convair's Stinson Division in 1939, he worked for Curtiss Aeroplane and Bell Aircraft in Buffalo, N. Y.

He transferred from Nashville to the



Fort Worth Division in June, 1944, as assistant group engineer, later serving as chief liaison engineer, B-36 assistant project engineer, and project engineer in charge of B-36 production and modernization.

COMMANDER FETED BY LANCASTER C. OF C.

Brig. Gen. John W. Carpenter III, new commander of Edwards AFB, home of the Convair Edwards facility, was honored March 11 by Lancaster Chamber of Commerce at its regular directors' luncheon meeting held at Antelope Valley Inn.



CHAMPIONS—Frank Pace Jr., right, president of General Dynamics Corporation, and his partner, Clifford Sutter, advertising agency executive, after they won American Platform Tennis Doubles championship last month. Sutter is former U.S. intercollegiate tennis champion.—Courtesy Macy Westchester Newspapers.



SCHOOL DAZE - Loyd L. Turner, left, special assistant to the division manager, Roger De Tonnancour, chief librarian, and Gene Hightower, assistant business manager of the Fort Worth Public Schools, guide Convair supervision on a public schools tour during Public Schools Week.

Employee Wins Fiat at Theatre Drawing

Meda Egbert of Dept. 22-2 has gone continental since she won the new Italian Fiat at the recent drawing at Fort Worth's Casa

What did she do with it? She gave it to her husband, Kenneth, last Saturday for their wedding anniversary.

Parks Alumni To Organize Club

Convair Fort Worth alumni of Parks College of Aeronautical Technology of St. Louis University got together for dinner at Western Hills recently to organize a local alumni chapter.

Square Dancers Start Classes

CRA square dancers get into the second ten weeks of instruction tomorrow night at 7 p.m. at the clubhouse.

Applications for the classes may be picked up at the CRA office. Fee for the course is \$3.

Commissioner Ross Carney said that special exercises are being held for each class that graduates.

"I'd also like to remind the folks that yearly membership cards were due by March 1," he added. "Yearly membership is

Carney says plans are in the making for an old fashioned cake walk for the club's annual activity party.

Baskin Crosses Up in Red River Cross

If you want to know how to drive to Oklahoma, don't ask A. J. Baskin of tooling -who just returned.

Baskin was pilot of a car taking a bowling team to a tournament in Wichita, Kan., one night recently. He left Texas by crossing the Red River near Lawton, Okla.

A few minutes later he came upon another bridge. When he arrived at the other side, a sign boldly pro-claimed: "Texas."

This happened not oncebut twice.

"I'll bet I'm the only guy in Texas that ever had to cross the Red River five times just to cross Okla-homa once," said Baskin.

Plant Easter Dance Set for March 28

Art Davis' orchestra will play for the plantwide Easter dance set from 8-12 p.m. on March 28 at the CRA ballroom.

This spring Easter dance marks the first of the new year, according to Commissioner Ike Pemberton.

An assortment of fox trots Latin American songs and old fashioned waltzes will fill a free evening of entertainment designed for all ages.

Wooten Still Looking for Chess Players

Chess Commissioner R. W. Wooten is still searching for players to participate in the City Chess League which continues at 7:30 p.m. March 24 at Sycamore Recreation Building near TWC.

Although there was a small turnout for the CRA chess meeting recently, there were approximately 50 players that showed up for the last city team match.

Swint Will Play Vandergelder In 'Matchmaker' at Playhouse

Erwin Swint, who opens April | 3 with Wing and Masque players in Thornton Wilder's comedyfarce, "The Matchmaker," makes his thirteenth appearance on the Fort Worth stage but his first at the CRA Playhouse.

Swint will portray the grumpy, tight-fisted Horace Vandergelder of Yonkers, New York, who runs a general store with the help of two innocent, naive young clerks. Things become hysterical when he decides upon marriage for "housekeeping purposes."

A member of the Fort Worth Community Theatre Board of Governors, Swint has appeared in "Stalag 17," "Oh Men, Oh Women," "Anastasia," "Will Success Spoil Rock Hunter," "Philadelphia Story," and "Mr. Robusta" erts."

Other Community Theatre assignments have included "The Mad Woman of Chailot," "The Lark" and "Hay Fever."

His three roles with the TCU



SWINT

Theatre include "Seven Year Itch," "Teahouse of the August Moon" and "Springtime for

Spring Fashion Show Plans Make Progress

Convair women will get a look at latest spring fashions at a special style show being planned for April 25.

Co-commissioner Winnie Leonard is making arrangements with Cox's to stage the show. Models from both the store and from Convair will be used.

Neal Weatherhogg, music major from TCU, will provide organ music throughout the show, which will get under way at 1 p.m.

The morning session of the women's club will meet at 10 a.m. March 25 at CRA to hear Mrs. Virgil Kennedy talk on "Arrangement in Artistic Acces-

Bridges Back After Alaskan 'Raw Deal'

Radio ham Dough Bridges of Dept. 85-5, who handled over \$18,000 worth of personal messages while in Alaska at Eielson AFB on "Operation: Raw Deal," recently returned to Texas with the project's main body.

Bridges said that he never would have been able to handle all of the traffic from the Alaskan end without the help of Convair's Lloyd Barrow of Dept. 85-5 and Bob Chapin of Sylvania.

A licensed radio operator since the age of 12, the 22-year-old Bridges has done work at the University of Nebraska and Kansas State University. He's a former KFJZ engineer.

HANGAR FLYING-These CRA model airplane enthusiasts are busy preparing for the next radio control contest slated for 1:30-5 p.m. on March 22 at Western Hills North. Commissioner C. L. Price says prizes will be awarded.

Activities Calendar . . .

Convair Recreation Association events in the next two weeks are listed below. Readers interested may clip this column and save it for reference until next issue of Convairiety. For more information, phone CRA office, ext. 2771 at Fort Worth, ext. 424 at Daingerfield.

Fort Worth

Tonight, March 18 ASTRONOMY: lecture, 7:30 p.m., CRA. BOATING: meeting, 7:30 p.m., CRA. BRIDGE: duplicate session, 9:30 a.m.,

CRA.
DRAMA: rehearsal for "The Match-maker" 7:30-10 p.m., CRA Playhouse.
RANCH ACTIVITY: calf roping, 8-10 p.m., ranch area, CRA.
SOFTBALL: meeting (men and women), 7:30 p.m., CRA.

Thursday, March 19 ARCHERY: shoot, 7-10 p.m., archery

ARCHERT: Shoot, 7-20 P.m., range, CRA.
ART: class, 7:30 p.m., FW Art Center.
BADMINTON: play, 7:30-10 p.m.,
Stripling Jr. High Gym.
DRAMA: rehearsal for "The Matchmaker" 7:30-10 p.m., CRA Playhouse.
RADIO: operating night, 7:30 p.m.,

CRA. SQUARE DANCING: classes: beginners 7 p.m., advanced 8:15 p.m., CRA. Friday, March 20 BRIDGE: duplicate session 7:45 p.m.,

CRA.
RANCH ACTIVITY: cutting 6-8 p.m.;
roping 8-10 p.m., ranch area, CRA. Saturday, March 21

ASTRONOMY: work parties, 9:30 a.m. 3 p.m., CRA.
GOLF—sweepstakes, Worth Hills.
DOG SHOW: Exhibit Bldg., Amon ter Square, 8 a.m.-9:30 p.m.

Sunday, March 22

MODEL AIRPLANE: radio control contest, 1:30 p.m., Western Hills North.
RANCH ACTIVITY: advanced riding lessons 2 p.m.; cutting 4-6 p.m.; roping 6-8 p.m., ranch area, CRA.

Monday, March 23 DRAMA: rehearsal for "The Match-laker" 7:30-10 p.m., CRA Playhouse. MOVIE: "Jubilee Trail" (color) with orrest Tucker. Shown lunch period, 50-Forrest Tucker. Shown lunch period, 50-foot aisle. VOLLEYBALL: league play, 6:45 p.m., Southside Recreation Building.

Tuesday, March 24 CAMERA: photography class, 7-9 p.m., CRA. CHESS: city chess league entries, 7:30 .m., Sycamore Recreation Building. GARDEN CLUB: meeting 7:45 p.m.,

GARDEN CLUB: meeting /:45 p.m., Garden Center. RADIO: election officers and business meeting, 7:30 p.m., council room, CRA. RANCH ACTIVITY: cutting, 7-9 p.m., ranch area, CRA. TABLE TENNIS: play, 7:30 p.m., CRA.

Wednesday, March 25

Wednesday, March 25
ASTRONOMY: work parties, 7:30 p.m., CRA.
BRIDGE: duplicate session, 9:30 a.m., CRA.
DRAMA: rehearsal for "The Matchmaker" 7:30-10 p.m., CRA Playhouse.
RANCH ACTIVITY: calf roping, 8-10 p.m., ranch area, CRA.
WOMEN'S ACTIVITIES: Mrs. Virgil Kennedy "Arrangement in Artistic Accessories," 10 a.m., CRA.

Thursday, March 26
ARCHERY: shoot, 7-10 p.m., archery ARCHERT: Shoot, 7-10 p.m., archery range, CRA.

ART: class, 7:30 p.m., FW Art Center.

BADMINTON: play, 7:30-10 p.m., Stripling Jr. High Gym.

DRAMA: rehearsal for "The Matchmaker" 7:30-10 p.m., CRA Playhouse.

RADIO: operating night, 7:30 p.m., CRA.

CRA.
SQUARE DANCING: classes: beginners
7 p.m.; advanced 8:15 p.m., CRA.

Friday, March 27 BRIDGE: duplicate session 7:45 p.m., CRA.
RANCH ACTIVITY: cutting 6-8 p.m., roping 8-10 p.m., ranch area, CRA.

Saturday, March 28 ASTRONOMY: work parties, 9:30 a.m.-3 p.m., CRA.

DANCE: plantwide Easter dance, 8 p.m., CRA. Art Davis' orchestra. WASHER PITCHING: singles tournament, 1:30-5:30, CRA.

Sunday, March 29 RANCH ACTIVITY: advanced riding lessons, 2 p.m.; cutting 4-6 p.m.; roping 6-8 p.m., ranch area, CRA.

Monday, March 30 DRAMA: rehearsals for "The Match-maker" 7:30-10 p.m., CRA Playhouse. MOVIE: "Target Hong Kong" with Richard Denning. Shown lunch period VOLLEYBALL: league play, 6:45 p.m., Southside Recreation Building.

Tuesday, March 31 RANCH ACTIVITY: cutting, 7-9 p.m., ranch area, CRA. TABLE TENNIS: play, 7:30 p.m., CRA.

Convairiety

First Place Winner
International Council of Industrial Editors

Founded Sept. 1, 1948. Published in six editions (Fort Worth-Daingerfield, San Diego, Pomona, Astronautics, Mail Edition and Antelope Valley-Holloman) by Convair Industrial Relations, General Offices, San Diego, Calif., Logan Jenkins, editor. Approximate current total circulation, over 65,000. News items and letters to the editor are solicited, but no advertising can be accepted.

SD Editorial Offices, Building 32, Plant 1, ext. 1071. Staff: Grayce Fath, Helen Pemberton Fred Bettinger.

Pemberton, Fred Bettinger.
FW Editorial Offices, Col. 73-C, Ext. 2961. Mailing Address: Convairiety, Convair, Fort Worth, Texas. Telephone PE 8-7311. Staff: Bob Vollmer, Fort Worth editor; Pat Baker, Mary Beck.

Astronautics Editorial Offices, Bldg. 2, new plant, ext. 1154. Staff: Bryan Weick-

ersheimmer, Astronautics editor.

Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8, Staff:
James Combs Jr., Pomona editor; Dorothy Keller.

Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff:

Log Book Entries

Promotions

Promotions to and within supervision, professional and administrative effective March 2:

professional and administrative effective March 2:

Dept. 3: to training specialist, R. O. Beil; Dept. 4: to liaison man, W. A. Whittemore; to purchasing agent, N. L. Johnson, D. H. Painter.

Dept. 6: to assistant project engineer, S. M. Andrich; to design engineer sr., J. C. Mathews, W. B. McLaughlin; to engineering chemist sr., J. E. Halkias; to test engineer, J. D. Sturgis.

Dept. 7: to subsystems liaison man, B. R. Dennis, E. E. Griffith; Dept. 8: to industrial engineer, R. A. Browning Jr.; Dept. 23: to manufacturing research engineer sr., J. L. McDaniel.

Dept. 27: to quality control liaison man, A. D. Davis; Dept. 32: to assistant foreman, V. B. Franks; Dept. 75: to assistant foreman, H. O. Babb Jr., M. O. Morris, R. L. Robbins.

Dept. 85: to aircraft maintenance specialist, C. E. Arthurs; Dept. 92: to assistant general foreman, L. C. King.

Awards

The following received Employee Suggestion awards totaling \$2,415.40 for the period ending 24 February: gestion awards totaling \$2,415.40 for the period ending 24 February:

J. O. Bennett, H. A. Hinkle, V. C. Igou Jr., W. M. Ritchie.
Dept. 4, V. V. Wooldridge; Dept. 6, B. L. Lawrence, H. M. Price; Dept. 12, L. A. Brown Jr.; Dept. 14, N. Mitchell.
Dept. 19, N. S. Poston, D. H. Claybrook; Dept. 20, S. B. Morris, D. O. Thomas; Dept. 21, J. D. Keel; Dept. 22, R. M. Brackney, J. S. James.
Dept. 24, H. G. Craig, C. C. Whitlock; Dept. 25, L. O. Gabbert; Dept. 27, J. Carter; Dept. 29, C. J. Warren.
Dept. 30, A. Comacho, L. R. Glass, D. R. Lancaster; Dept. 31, A. H. Phagan; Dept. 33, B. J. Graham; Dept. 34, J. M. McKee Jr.
Dept. 36, D. N. Weehunt; Dept. 46, P. B. Washburn; Dept. 55, G. Faught; Dept. 64, H. C. Woodrum; Dept. 82, R. W. Setzer; Dept. 85, C. L. Davis Jr.

Ketirements

EUBANKS—Otto, Dept. 31. Original hire date November 10, 1943 (FW), retirement effective February 27. 3701 Fairfax Ave., Fort Worth, Texas.

NOBLE—A. H., Dept. 14. Original hire date August 2, 1943 (FW), retirement effective March 13. Blum, Texas.

MULLINAX—T. O., Dept. 31. Original hire date July 14, 1943 (FW), retirement effective March 27. 2317 Norwood Lane, Arlington, Texas.

STEWART-J. W., Dept. 65. Original hire date February 15, 1943 (FW), retirement effective February 27. 1014 W. Arlington, Fort Worth 10, Texas.

SWINEY—E., Dept. 99. Original hire date December 9, 1946 (FW), retirement effective March 20. 618 Southwest Fifth, Grand Prairie, Texas.

TANNER—A. D., Dept. 15. Original hire date September 29, 1943 (FW), retirement effective March 3. Walnut Springs, Texas.

WYLIE-M. H., Dept. 99. Original hire date September 23, 1946 (FW), retirement effective March 9. Era, Texas.

Births

Fort Worth

SHAW—Penny Larae, girl, 8 lbs., 5 ozs., born February 21 to Mr. and Mrs. B. M. Shaw, Dept. 6-6.

SHIPP—Barry James, boy, 8 lbs. 11 ozs., born February 10 to Mr. and Mrs. J. F. Shipp, Dept. 27-8.

TAYLOR—Dwayne Leslie, boy, 8 lbs. 14 ozs., born February 17 to Mr. and Mrs. L. W. Taylor, Dept. 89-1.

Daingerfield WALTON—Tina Delyce, girl, 5 lbs., 91/2 ozs., born February 12 to Mr. and Mrs. W. R. Walton, Dept. 3-4.

NAZZAL—Nancy Annette, girl, 6 lbs., 14 ozs., born February 23 to Mr. and Mrs. J. R. Nazzal, Dept. 2.

Deaths

SIMMONS—Mrs. K., wife of K. Simmons, Dept. 15, died February 27. Survivors include her husband, one son, two daughters, a brother and five grandchildren.

Cards of Thanks

I would like to express my sincere thanks to the Employee's Con-Trib-Club for their help during my recent illness. L. A. Wilkerson, Dept. 33

We wish to express our sincere thanks to our many friends for all the flowers and other expressions to us following the recent loss of our mother, Mrs. Frances Razo.

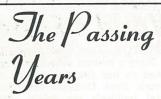
M. Razo, Dept. 24-1 M. Razo, Dept. 64 J. Razo, Dept. 75

We wish to express our sincere appreciation to our many friends at Convair for the flowers and other expressions to us following the recent loss of our daughter, Phyllis Greer.

Mr. and Mrs. J. H. Greer, Dept. 85-2

Hitchhikers

RIDE WANTED—from 3312 Wesly, 7-3:45 shift, call J. F. Shipp, Dept. 27-8, phone TE 8-3710.



Fort Worth

The following service emblems were due during the period March 16 through March 31.

Fifteen-year: Dept. 3, E. B. Pechacek; Dept. 4, C. C. Harris; Dept. 9, N. K. Luce; Dept. 14, A. B. Gathings; Dept. 20, R. E. Parson.

Dept. 22, A. G. Evans, R. H. Young; Dept. 24, L. T. Estes, L. K. Mauldin, R. L. Medley, M. Miller, X. S. Richardson. Dept. 30, E. Rivera; Dept. 32, S. O. Key, H. W. Brown; Dept. 33, C. O. Goains; Dept. 46, E. C. Irvin, W. D. Hays, T. S. Taylor.

Dept. 54, R. W. Day; Dept. 55, F. E. Brown; Dept. 58, J. G. Simms; Dept. 59, H. O. Luning; Dept. 64, B. E. Dunsworth, L. E. Griffin, G. W. Stewart.

Dept. 65, D. W. Summers, J. M. Wells; Dept. 81, S. R. Cook, A. H. Ueckert; Dept. 82, A. Y. Taylor.

Ten-year: Dept. 4, L. A. Mele; Dept., J. M. Murchison, R. E. O'Byrne; Dept., W. E. Mercer Jr.; Dept. 15, K. H.

8, W. E. Mercer Jr.; Dept. 13, K. H. Faulkner Jr.
Dept. 20, S. B. Allen, P. M. Carrell, J. A. Sanders; Dept. 22, E. F. McDonald, C. A. Sedberry; Dept. 24, W. Elliott, A. D. Farrell, J. W. Glass, L. W. Hamilton, J. A. Moore.

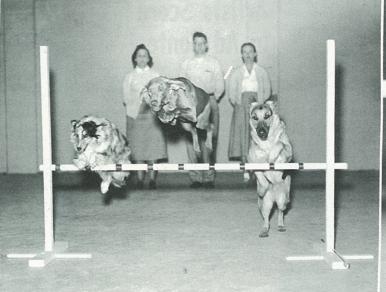
Dept. 25, G. H. Aslinger, K. B. Brackeen, C. J. Faulkner, L. M. Jeffries, D. L.
Lott, G. S. Marchman Jr., C. H. Pittillo.
Dept. 27, L. F. Coy, J. D. Greer, J. J.
Grucella, C. H. Hiner, L. P. Thompson;
Dept. 31, C. B. Howard, W. A. Lemley. Dept. 32, A. C. Dane, E. C. Garrison; Dept. 33, B. B. Odom, C. D. Roberts; Dept. 64, J. W. Bryan, E. C. Hardin Jr.

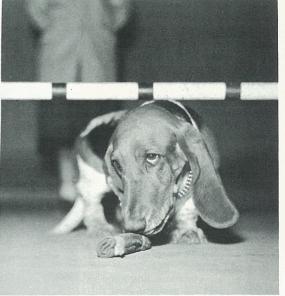
Dept. 65, J. R. Brewer; Dept. 73, H. L. Baker; Dept. 75, O. D. W. Wright; Dept. 81, G. B. Bell Jr., A. Layton; Dept. 82, V. Cruz; Dept. 85, M. D. Smith.

Daingerfield

Ten-year: Dept 3, C. E. Roberson; Dept. 5, R. E. Gunn.







HOT DOG!—Convair Fort Worth dogs and masters are preparing for the twenty-seventh annual all breed Dog Show and Obedience Trial set for Saturday at the Exhibit Building, Amon Carter Square. Left, Dawn, Lady and Tia pick out rag bones their masters have placed before them. Center, they stretch their

legs a bit with a simultaneous jump over the pole hurdle. At right, the not-soenergetic Beagle apparently thinks the other canines are doing it the hard way. He's going under the pole! More than 50 Convair people are expected to enter





SAFE!-Here some of Convair Fort Worth's junior baseball players practice up for CRA Baseball Clinic which gets under way April 4 through May 23. Youngsters are still signing up at the

CRA April Boys' Baseball Clinic **Applications Increase to 120**

One-hundred and twenty applications have been received for cations will be accepted up until the CRA boys' spring baseball clinic scheduled to get started April 4.

According to the CRA office, March 23 has been set as a new

Tourney Planned in Table Tennis

CRA table tennis players will have their annual plant-wide tournament April 11 starting at 1 p.m. in the clubhouse ballroom.

The tourney will be open to all Convair and Air Force people, including those stationed at Cars-clinic and must accompany the well AFB.

Scheduled events include men's and ladies' singles, men's doubles, mixed doubles, ladies' doubles, senior men's singles (40 and over) and junior singles (18 and under).

Consolation events will be held if the number of entries warrants them. Application blanks are available at the CRA office or from Stan Powell, ext. 2572.

Winners in the last tournament were John Rangel, Don Brittian, Dale Brooks, Rudolph (Sam) Hromcik, Robert Case, James Dwyer and Mrs. Monty (Jack) Burt.

Baseball Meet Set

Prospective junior baseball league players are meeting at CRA at 7 p.m. on March 25. This will be an organizational meeting, and youngsters have been asked to bring along their parents. Age limits are from 9-16 years.

that time or until the quota of 200 youngsters has been filled.

Dr. Bobby Brown, former New York Yankee infielder, will be guest speaker and instructor for the opening sessions on April 4.

Open to all boys 9 through 15 years old, the clinic will be under supervision of the CRA junior baseball activity. It will meet every Saturday through May 23.

Major league baseball scouts will be instructors and will give the boys instruction in all phases CRA Golf Sweepstakes of the game.

application blank. Blanks are available at the CRA office.

Washer Pitchers Will Hold Plant Tourney

A washer pitching tournament is slated for March 28 beginning at 1:30 p.m. at the CRA clubhouse with selection of the plantwide champion a special feature of the day.

M. E. Goolsby, presently plant champ, will pitch against Oliver Cornelsen for the title.

Merchandise awards will be given to top pitchers, and there is no pre-tournament registration.

Is It News?

Is it news? Then grab a telephone and call Convairiety

Local Plant Hobbyists Planning to Put on Dog At 27th Annual Dog, Obedience Show Saturday

Convair Fort Worth hobbyists will "put on the dog" Saturday at the Exhibit Building behind Convair people entering the Silver trophy prizes will be Will Rogers Coliseum when an expected 50 of the plant's dog lovers enter the twenty-seventh annual all breed Dog Show and

Ranch Shelter Construction Is **Now Under Way**

Construction is now under way on a modern new CRA ranch shelter at Convair Fort Worth.

Ground breaking ceremonies were held recently at the new shelter site at the right of the entrance to the ranch area.

Those on hand for the ground

breaking festivities included CRA Commissioner Ralph Reade, R. K. (Dick) May, who submitted sketches and suggestions for the new building, and Reed Hendrickson, president of the CRA ranch

C. J. Hall Jr. of CRA said that construction is being done by CRA employees and volunteers. The foundation and slab is being handled by an outside contractor, but the stone work and fireplace will be done with volunteer help.

He says that the building should be finished around the first part of May.

The new building will be used as a meeting place for CRA's ranch activities. It is designed to accommodate around 100 people comfortably.

Will Begin Saturday

CRA golfers will get into the full swing of things at the special Golf Sweepstakes Saturday at Worth Hills.

Deadline for entering is Friday, and blanks are available at the CRA office and from Walt Hill at Annex 2.

Men entering will play in foursomes made up prior to the

The field will be divided into four handicap classes. Players with no established handicaps at CRA are still invited to enter. Handicaps will be determined.

Golfers who didn't participate in at least three of the 1958 events must establish new handicaps to be eligible for 1959.

Convair Woman Bowls a New Watch

Convair Fort Worth's Jeanneane Bavousett of the electronics group of engineering is sporting a new \$500 diamond studded wrist watch she won bowling in the recent March of Dimes Bowling Tourney.

Convair people entering the Oberience Trial include Arthur J. Myers, Mary Bulger, Robert Adel, Ben Bates, R. E. Finch and K. E. Kouder.

Obedience Trial.

Most of the dog trainers are proteges of Dwight D. (Bill)

Rex Robinson, Ann Gillespie, Jim Wood, Fran Morris, Charlie Buse, Raymond C. Oser, Marie Goode and Joe Morrow.

> There'll be a slew of other Convair people with everything from Chows, Dachshunds and Old English Sheepdogs to Italian Greyhounds, Japanese Spaniels and Yorkshire Terriers entering the "beauty contest."

> Outstanding among Convair canines in the beauty contest will be E. A. Black's Doberman Pin-

Garden Club People To Hear Judge Talk

Mrs. A. Gran Fewsmith, Fort Worth authority on gardening, will speak on "European Impression" at the March 24 garden club meeting planned for 7:45 p.m. at the Fort Worth Garden Center.

Having returned from a three months' tour in Europe, Mrs. Fewsmith plans to place special emphasis on her impressions of European gardens.

She is counted among the national flower show judges.

awarded in the Obedience trial -about \$800 worth. Show dog winners will be awarded \$2,000 in awards.

Employees Haul 100 Fish on Expedition

Fort Worth's spring weather is responsible for the 100 white perch and bass caught by a group of fishermen from industrial security recently at Lake Whitney.

Those in the fishing party included H. W. Chick, Ewell Smith, A. J. Morris and Ray White. They made Smith's cabin their headquarters on Steel Creek and were fishing with minnows.

Weight Lifting Cards Being Picked Up Now

Deadline for CRA weight lifting eligibility cards is March 31, and renewals must be made before that time.

The eligibility cards are available for \$1 at the CRA office.

Weight lifters are now preparing for their annual physique and weight lifting contest set for May 2 at the clubhouse.



NEW SHELTER—Here is the artist's conception of the new CRA ranch shelter on which construction is now under way. The building is being constructed by CRA employees and volunteers.



GROUND BREAKING—Commissioner R. S. (Ralph) Reade, left, of the CRA ranch club, R. K. (Dick) May and Reed Hendrickson break ground for the ranch shelter being constructed at Convair FW's ranch area. Hendrickson is president of the CRA ranch

Safe Practices A Key Point in **Cost Reduction**

(Continued from Page 1) formance on the B-58 and other programs at the same time. For every accident—either on the job or off-costs not only the employee, but Convair as well.

"There's added cost if a minor injury like a scratched finger results in no more than 15 minutes off the job for a visit to the first aid station.

"When there's an injury, no matter how slight, we certainly urge employees to check in at a first aid station. But better yet, we'd rather eliminate any need to go to a first aid station. And following safe practices will do just

Convair employees in 1958 made an enviable safety record which can be topped in 1959 if employees continue to keep themselves safety-conscious.

The progress is shown on reports revealing that in 1951, only 14 departments worked 1,000,000 manhours or a calendar year without a disabling injury. By mer professor billed as "Mr. 1958, that figure had grown to Creativity," will put on a onealmost twice as many departments, a total of 25. Said Temple:

"In 1951, one employee among each 44 at work at Convair suffered some wage loss because of a work injury. In 1958, it was only one employee among each

"Each employee suffered work injuries requiring six visits to first aid stations in 1951. Last year, this figure was down to an average of less than one-andone-half per employee.

"Severity likewise shows marked improvement. Most serious accident in 1951 cost the company more than \$120,000 in repairs, and \$13,500 for compensation to the employee. About the most costly accident in 1958 was a collision experienced by a Convair employee on the freeway. It cost \$983.

"Back in 1951, there were seven critical injuries, including two fatalities. In 1958, most serious was the loss of two joints of a

Two From Convair Seek School Office

Loyd L. Turner, 41, special assistant to the division manager, and Robert R. Thompson Jr., 34, weight coordinator in Dept. 6-2, are among eight candidates for the Fort Worth Board of Educa-

A native Texan, Turner holds bachelor's and master's degrees from Baylor University. He taught at Baylor and the University of Pennsylvania, served as an Air Force intelligence officer during the war and joined Convair in 1946.

Thompson, a native of Fort Worth, is a graduate of Texas Convair Fort Worth added its Wesleyan College and has done third member to the rolls of the E. W. Bullard, maker of the joining Convair in 1956.



Dr. Herbert True

IDEA DEVELOPMENT PROGRAM PLANNED

Dr. G. Herbert (Herb) True, a 35-year-old "huckster" and forman program for Convair Fort Worth Management Club members April 25.

Aim is to show members "how to put new purpose into their personal, business and professional lives." The meeting will be at Ridglea Country Club.

Dr. True, director of creativity research for Visual Research Inc. in Chicago, is the program's single speaker. His half-day presentation, with the help of color slides, is designed to help club members increase the number of their own useful productive ideas.

ing "The Care and Feeding of Ideas," "Television Techniques Handbook," and "TV Dictionary Handbook," Dr. True is a former faculty member in marketing and English at the University of Notre Dame.

The program is being planned by the club's personal development committee.

Convair Delegation Tours Public Schools

Some 35 Convair Fort Worth employees—foremen, supervisors, and department heads-went back to school recently in conjunction with Fort Worth Public Schools

In charge of the Convair delegation was Loyd L. Turner, special assistant to the division manager.

The Convair group left the reservation by chartered bus and visited three schools, observing paper on "Nuclear Reactor Inclassrooms in action.

Artists Score In Ad Contest

Convair Fort Worth artists of engineering illustrations recently added more awards to their collections.

They took top honors in the recent 1958-59 Art Competition and Exhibit contest sponsored annually by the Fort Worth Advertising Club.

Winners were Royce Benson Jr., who won a first place or certificate of exceptional merit in the poster category, and W. J. (Dub) Ballow, who placed second with a certificate of merit for best editorial cartoon illustration. (Ballow has been doing the Miss Thrifty cartoons for Convairiety.)

Convair received a third award a second place—for an illustrated handbook drawn by a former employee.

This year's contest marks the third year that Convair has participated. Awards from previous years can be seen on the wall near the desk of Johnie Herbert, publication supervisor

Memorial B-36 Ready Soon

Today marks another milestone in Fort Worth history as the newly enshrined B-36 at Amon Carter Field was scheduled to roll to its monumental site in

Volunteer work parties have shined up the plane every Saturday since the dedication ceremonies Feb. 12. Hundreds of ex-B-36 veterans from the plant have volunteered their time and effort to put the giant bomber back into Author of several books includ- "tip top shape" for public display.

> traffic, says that the public will probably begin touring the aircraft by Saturday, March 21.

> work parties on Saturdays at the airport has been Sam Keith, chief

The enthusiastic work turnouts the 383 bombers Convair turned

IRE Section Holds Meeting in Plant

Convair Fort Worth played host to a recent joint meeting of the Dallas-Fort Worth sections of the Institute of Radio Engi-

Dinner was served in the Convair cafeteria, and J. R. Gardner, senior nuclear engineer, gave a

front of the terminal building.

B. R. Main, general foreman

Coordinating the volunteer

have been credited partly to "nostalgia"—since most of these people had a hand in assembling over to the Air Force.

Turtle Club Welcomes a New Member

work toward his doctorate at international Turtle Club when J. special safety helmets worn North Texas State College. He F. Mulonax of Dept. 56 received throughout the plant. taught in the Fort Worth Public a letter, certificate, helmet, and Schools for two years before pin from E. L. Falkner, general foreman.



CLOSE CALL-J. F. Mulonax, center, of Dept. 56 becomes official member of Turtle Club as E. L. Falkner, right, general foreman, crowns him with proper helmet. Supt. J. E. Topliff of Dept. 7 at left. Mulonax is third person at Convair FW to receive membership.

Whose Noggin Struck by Falling Motor

Membership in the club is granted whenever anyone wearing the helmet has a "close call."

Last fall Mulonax was on the first floor of B-58 wing bucks in his assembly area. He was drilling skin panels with a tripod motor, and the same type work was going on immediately above him on the second floor.

When the man on the second floor changed positions on the work stand, the stand slipped, he lost his balance and dropped his six-and-one-half pound tripod motor on Mulonax's head some 14 feet below.

"It just dazed me a little, thanks to the hard hat," Mulonax recalled.

He said that the turtle-shaped helmet cushioned the force of the falling motor.

"Now I'll never mind being a little uncomfortable as long as I'm protected with a helmet,' Mulonax said.

The other two Convair Fort Worth Turtle Club members are B. N. Cook, no longer with the company, and M. W. Dellis, Dept.



ARTFUL-Left to right, Janice Boatman helps Royce Benson Jr. and W. J. (Dub) Ballow tack up more awards for art work submitted in recent contest sponsored by the Fort Worth Advertising Club. All three are in Convair FW engineering illustrations.

Alaska Travelers Glad To Be Home in Texas

Convair Fort Worth and Air | "sorta homesick." Force people who were assigned with a few stragglers flying in last week.

The supersonic B-58 Hustler, which has been undergoing a series of cold weather tests, arrived back in Fort Worth Feb. 5 ahead CRA radio commissioner, and of the main body of Convair and Air Force personnel.

Primary purpose for the operation was to test B-58 sub-systems 50 Sons Seek Primary purpose for the operaunder various climatic conditions.

"Operation: Raw Deal" turned out to be not as raw as test engineers would have preferred. Though it was dead winter in Alaska, there were only four days when the mercury dipped as low as test crews needed, namely under 20 degrees below zero.

Piloting the Hustler through the cold weather tests was Maj. K. K. Lewis of Carswell AFB's B-58 Test Force. Major Lewis, who was also project officer, was assisted by Maj. Jim Zwayer in turned in by March 31. Blank apthe navigator's seat and Capt. Perry Amidon riding in the defense operator's compartment.

Harry A. Dunlavy of customer service represented Convair throughout the Alaskan testing. He also headed the B-58 cold weather tests earlier at Eglin AFB in Florida.

Last month G. S. Green, as-Test Force commander, and Ben per halves of their classes. Fay, assistant manager of spares, spent a few days at Eielson during a routine check-up.

Green said that the cold weather tests provided good informasaid that he found the people enthusiastic, well-cared for but security.

Most of the Convair and Air "Operation: Raw Deal" at Force people assigned to the pro-Eielson Air Force Base in Alaska ject left Fort Worth the arrived back in Texas this month latter part of November last

They managed to communicate with their families throughout and after the Yuletide season by radio, thanks to Max Schelper, several other Fort Worth "hams."

Scholarships

Over 50 applications for the two 1959 Convair Fort Worth sons scholarships are expected to be in the mill by the approaching March 31 deadline.

Early last week 26 youngsters had applied, according to B. R. Hooper, industrial relations analyst assigned to the project.

Applications can be picked up until March 30 but must be plications can be obtained from J. B. Ellis, industrial relations administrator-engineering, on the second floor, north end of the administration building.

Prospective applicants must have parents who have at least five years service with Convair. They must be high school seniors or not have been out of school sistant manager of customer more than two years. Scholastiservice, Col. David M. Jones, B-58 cally, they must rank in the up-

Final decisions will be made by the Convair Fort Worth scholarship committee composed of Frank W. Davis, division manager, R. H. Widmer, chief engition for future B-58 operations. neer, and F. E. Chambers, manof industrial relations and



GOOD DEAL—Left to right, Capt. Perry Amidon, Maj. Jim Zwayer and Maj. K. K. Lewis agree that it's "good deal" to be back in Fort Worth after "Operation Raw Deal."



Astronautics

Serving Astronautics' San Diego plant and facilities at AFMTC, Fla., and Vandenberg AFB, Calif.

Astro news office, Kearny Mesa plant, ext. 1154. Vandenberg news contact, ext. 8-4148. AFMTC news contact, ext. 3038.

AFMTC, CAPE CANAVERAL, FLA., FORT WORTH, TEX.

SAN DIEGO, POMONA, ANTELOPE VALLEY, VANDENBERG AFB, CALIF.





PLENTY OF LIGHT-Among Convair plants, Astronautics holds some kind of record in that Kearny Mesa buildings total almost 10,000 windows! Window washing is year-round task. Some buildings are visited monthly, some every two months, and big office buildings get treatment three times a year.

Dynamics' Backlog Set at \$2 Billion

General Dynamics Corporation closed 1958 with a business backlog of more than \$2 billion, President Frank Pace Jr. told shareholders in the annual report issued last week.

Calling 1958 a period of outstanding achievement for the company, Pace reported that sales were \$1,511,456,261, second only to the record year of 1957 when the figure was \$1,562,538,-900.

With an estimated \$2,095,000,-000 backlog at the end of 1958, Pace said that an estimated additional \$645,000,000 in contracts was in negotiation as of Dec. 31, 1958

9,909,822 common shares outdebentures into common stock.

Pace told shareholders that expansion and speed-up of corporate research and development programs have entailed large financial outlays. He pointed out that research and development costs for the 880/600 jet airliner program amounted to \$24,012,620 in 1958. It is expected that they will exceed this figure in 1959.

"As is true in every new venture," Pace said, "serious problems and financial risks face us at the beginning, but the longterm potential is so great that the directors and I look forward with confidence . .

He listed as examples of the corporation's "unique capability": Earnings per share based on orbiting the Atlas earth satellite; Atlas full-range flights; voyages standing were equivalent to \$3.71. of USS Nautilus and USS Skate This compares to \$4.80 per common share based on 9,224,419 mergence of USS Seawolf; succommon shares outstanding at the end of 1957. The increase in fastest submarine, the Skipjack; common shares outstanding for invention, design and production the year 1958 was primarily the of nuclear research reactor result of conversion of the corporation's 3½ per cent convertible

"Triga"; performance of B-58

Mach 2 bomber; roll-out and early test flights of 880.

New Astro Committee Created To Boost CRA Development

More Convair Astronautics employees will get into the "act" of planning the development of the CRA recreation area adjacent to the Astro plant through action taken last week.

At that time, an initial meeting was held of a recently-appointed recreation area coordinating committee. Subsequent meetings of this group are slated monthly or more often, if needed.

The special committee includes representatives of all departments and functions that have assumed some task or project concerned with the development of the 26-acre family play center. These will help coordinate current programs and formulate future ones. Through them, individual employees will be able to voice their opinions in the area build-up.

For the most part, planning to date has fallen to the CRA Employees' Council. Work assignments have been passed out through CRA's development committee headed by Ezra Johnson of Dept. 771.

More than 8,000 hours have been devoted to working on the area by Astro employees. Some 119 employees have completed 20 hours each, entitling them to special "Effie" awards from CRA. The efforts of these employees have saved CRA many thousands of dollars in labor costs. This money, in turn, has been diverted back into the area, greatly shortening the time when it can be used by Astro people of all ages as a recreation center.

Here, in brief form, is a current status report on the area: (Continued on Page 2)

Master Move Group Recalled For New Task

Convair Astronautics late last month reactivated its master move group in setting the stage for planning and execution of major facilities expansion within the division.

J. R. Dempsey, Astro manager, announced the reactivation and appointed Charles Marvin, executive assistant to Astro's operations manager, to serve as chair-

The master move group is not new at Astronautics. The first organization of this type was formed in February, 1957, and disbanded in September, 1958. In the interim it formulated and executed all policies and plans involved in transferring Astro operations from facilities within the San Diego Division to the new Astronautics plant.

Marvin also served as chairman of this group. Of the 20 men named by various departments and functions to serve on the present group, eight were also members of the first master

As with the initial group, those involved in the present organization are establishing directives, coordinating assignments involved in all phases and setting into motion actual work programs.

Marvin explained:

"Our present facilities are filled. We must now move personnel off-site to allow us room for shifting personnel about as areas are being altered. We foreareas are being altered. We fore-see a continuing series of interim

Esenwein Talk moves throughout this year.'

To make possible such moves, Astro is planning to utilize space within the Westgate warehouse, now controlled by Astro, and to take over the Aztec warehouse, a structure of similar design in the same general area. Both facilities are currently undergoing rehabilitation for this purpose. This, alone, is a major task, involving installation of telephones, office facilities, rest rooms, etc.

Within the next months groups and functions within Astronautics will begin to move about. Slated for early attention are elements of purchasing, engineering and possibly some controller personnel.

Meanwhile, work continues on three "space" projects at the Astro plant. A two-story office building, an extension of the factory mezzanine, and a new tooling building are in the "works."

The following are serving on Bowman, R. A. Calen, J. R. Couchois, J. J. Curley, F. Fretheim, C. A. Hill, J. R. King, R. W. Kleinhans, S. A. Levinson, R. A. McClernan, W. S. Mears, H. L. Montgomery, M. M. Mrvichin, M. after the first of this year. A. Wade.

Convair Divisions Lead All Aircraft Plants For Safety

Convair's four major divisions placed first, second, third and fourth in the 1958 National Safety Contest for aircraft manufacturers conducted by the National Safety Council.

For the second time in three years Convair Pomona

won first place in the contest. Convair San Diego, which was first last year, placed second; Astronautics Division, which was second last year, placed third; and Convair Fort Worth was fourth, after placing seventh last

The contest is judged on the basis of the accident frequency rate of each participating company. This rate indicates the number of accidents occurring per million manhours worked. Po-mona's rate was .31, SD's was .45, Astro's was .60 and FW's was .69.

"Convair is a veteran of many firsts. Your unprece-dented accomplishment in winning all four of the National Safety Council's top positions for 1958 is in keeping with this outstanding tradition. These reflect personal contributions of every man and woman associated with Convair and represent a fitting tribute to Convair's high standards of per-formance. Congratulations on another splendid achievement," Frank Pace Jr., president of General Dynamics Corporation, commented.

Astronautics was exceptionally proud of its 1958 safety performance, achieved under a whole series of unusual circumstances, W. Garrison, Astro's chief safety engineer, commented.

First, Astronautics moved its entire operation from one point to another. Employees left familiar surroundings for sites unlike any they had even seen before.

Second, construction posed a severe handicap. During much of the year Astro personnel worked alongside building tradesmen. The latter dug potentially dangerous holes, erected high work platforms and brought in tools and equipment which cluttered the entire plant.

And Astro welcomed several thousand new employees, many of whom had never seen the inside of a missile plant.

These problems, plus a wealth of others, resulted in Astro wag-Esenwein has been with Con- ing a never-ending safety instrucprogram throughout the year. From the time a new employee entered the plant until after he had become a "regular" he continually heard about safety, in indoctrination courses, in specialized training classes and from supervision.

Astronautics also reports one of the highest ratios of safety O. Ramsey, R. L. Richards, J. C. The April meeting will also of the highest ratios of safety Ruzich, H. F. Spuehler, and W. mark the Astro club's annual committeemen to employees found within Convair.



FEATURED-August C. Esenwein will be featured speaker at April 15 meeting of Convair Astronautics Management Club slated for Lafayette Hotel.

Slated April 15

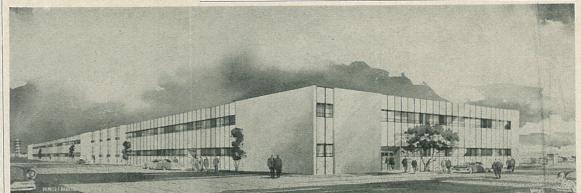
August C. Esenwein, Convair's new executive vice president, will make his first appearance as a speaker before a local group April 15 when he addresses the Convair Astronautics Management Club.

Under sponsorship of the controller's department, the meeting is set for the Terrace Room of the Lafayette Hotel.

Actually, the April 15 speaking engagement will be Esenwein's third visit with the Astro club. He was a guest at the July "charter night" meeting and spoke briefly as a representative of the Convair Fort Worth club. Esenwein also occupied a head table spot at the club's "meet the brass" meeting early this year.

vair since August, the master move group: W. B. spent a brief period in San Di-Barth, J. S. Berggren, W. E. ego before moving to Convair Fort Worth as assistant division manager. He became division manager in December, 1950, and a Convair vice president in 1953. He assumed his new post shortly

> The April meeting will also nomination of officers.



WORK UNDER WAY—Artist's conception gives idea of what new Astronautics office building will look like when completed. Part of foundation already has been built.



AFMTC RITUAL-Astronautics AFMTC Management Club reports a very active participation in all activities. Scene above was during March meeting drawing. Left to right are: W. S. Joyner, Australian manager of De Havilland, Ltd., a guest, J. P. Nicholas, J. O. Kirby, President R. G. Goldinger.

High Percentage of Eligibles Join AFMTC Management Club

gible for membership in the new Convair Astronautics AFMTC Management Club are now active members, reports R. G. Goldinger, president.

Formation of the club began last November with the appointment of a pro-tem slate of officers. It was climaxed in January when a new slate of officers was installed at a charter meet-

Elected with Goldinger (chief of inspection) were: C. A. Johnston, first vice president; T. J. O'Malley, second vice president; C. D. Gay, secretary; W. D. Mead, treasurer, and B. A. Kul-

Over 210 of the 256 men eli- chin, chairman of the board of control. The latter includes oneyear directors, J. P. Longo, A. C. Jones, C. R. Jackman, E. A. Baldini, W. D. Taylor and P. L. Dudney; two-year directors, J. W. Swigart, B. C. Danner and W. S. Hicks; and three-year directors, W. R. Jackson and J. H. Fox.

The February meeting at the Rockledge Country Club featured and Space Administration directpanel chores with club officers. to attend.

Shotwell Now On VAFB Duty

Robert C. Shotwell, a test conductor for Convair Astronautics since joining the company in January, 1957, is now on duty at Vandenberg AFB following his transfer last month from Cape

He was honored March 5 at a farewell party attended by some 25 associates at AFMTC, largely from test operations.

Shotwell, born in Battle Creek, Mich., attended high school in Detroit and was graduated from the University of Michigan with a B. S. degree in electrical engineering in 1935. He has worked for Barkley-Grow Aircraft, Stinson Aircraft and Stout Research Division of Convair at Dearborn, Mich. (since dissolved) as project engineer on the Bumblebee

Later he was with Douglas Aircraft as a project engineer in instrumentation and in 1950 was in charge of flight testing for Goodyear Aircraft at Phoenix,

Gun Club Events Set by SD, Astro

Next shoot staged jointly by the Convair SD and Astronautics Gun Clubs at Gillespie Field will start at 9 a.m. on April 5.

On April 14 the clubs will hold M. Gough, National Aeronautical a joint meeting starting at 7:30 p.m., also at Gillespie. C. W. "Red" Pharis, Convair skeet or at AFMTC. The March affair saw C. E. Nelson, National champion, will demonstrate his Management Association director, specialty in addition to a movie and B. G. MacNabb, Astro opera- and report on hunting. Any Contions manager at AFMTC, share vair folk interested are invited



GONE NOW-Robert Shotwell, veteran test conductor for Astro's operation at Air Force Missile Test Center in Florida, has departed for new assignment at Vandenberg AFB. Prior to departure members of test operations group surprised him with "going away party and gifts. That's B. G. MacNabb, base manager, seated to Shotwell's right.

SCIENCE STUDENTS TO INSPECT ASTRO

Forty top high school science students, finalists in the fifth annual San Diego Greater Science Fair, are scheduled to tour Convair Astronautics April 6.

Each of the visitors had entered a science exhibit or project in the Fair which features final judging Friday (April 3) night. At Astro the students will view engineering test laboratories and computer operations.

J. R. Dempsey, Astro manager, is chairman of the board for the

Other industrial firms in the San Diego area, including Convair San Diego, are playing host to the touring students during the day April 6.

NEW BEAUTY, CHARM COURSE ARRANGED

A follow-on to the highly successful Astronautics CRA Beauty and Charm Course has been arranged through Astro's women's activities, according to Jean Bryan, commissioner.

Courses at the John Robert Powers Studio will begin on June 3 and 4. All are offered at night over a 15-week period. Complete cost of the course, with CRA subsidy, is only \$55, with \$15 payable upon enrollment.

Elaine Jorgenson, ext. 1111, will accept applications. While the course is open to all Astro wives and daughters, husbands may register for female family members by paying the enrollment fees.

Con-Trib at Astro **Okays Six Grants**

Six grants of funds have been made to local charities in the name of all Astronautics employees through action of the Astronautics Employees' Con-Trib-Club Committee.

They include: \$5,000 to the American Cancer Society, San Diego County; \$4,500 to the San Diego County; Diego County Heart Association; \$2,500 to Muscular Dystrophy; \$2,000 to the Easter Seal Campaign; \$2,000 to the City Rescue Mission; and \$650 to Goodwill Industries.

Radio Club to Elect Two Officer Slates

Astro Radio Club members will name a duplicate slate of officers at two meetings set for tomorrow (April 2).

First shift members will gather at 7:30 p.m. at the Astro cafeteria to nominate and elect officers. Second shift employees meet following their work at 1:15 a.m. in the mockup room, Bldg. 5, Column K-1. This group will also elect officers.

Regular Astronautics golf sweepstakes will be held April 11-12 at Balboa Park, Art King, golf commissioner, reports. En-Juanita, ext. 1158, until April 9. Chambers, ext. 1841, Plant 1.

New Committee Will Aid CRA

(Continued from Page 1) a Little League ball park ready for use; a softball park under construction; a horse ring ready for limited use; a clubhouse progressing nicely; trees, planted last year, growing but need care; grass is up but requires grooming; seven family-size barbecue pits completed, seven others in works; one large barbecue pit in works; horseshoe and shuffleboard courts under construction; archery range in use; and two large group picnic shelters in works.

Members of the new coordinating committee are all "old-timers" in the area.

For instance, P. R. Lewellyn (Dept. 756) has been directing renovation of the clubhouse buildings with ample assists from M. L. Bjorstrom (771) and Lee Ely (758). George DeMateo (532) is assuming direction of all work on children's play areas; H. S. McDuffee leads a Sycamore Canyon field force on the softball park; Don Creyton (400) and Bill Barth (772) are ringleaders in the picnic shelter project.

CRA commissioners like Al Stone (195) assist in such projects as the archery range, while F. W. Augustine (535) directs horse ring activities.

Individual areas are looked after by men like Joe Mernik (130); Dick Campbell (532); E. J. Bourgeois (280), various manufacturing control supervisors; C. R. Martin (771); Jack Kline (fabrication departments); Carl Gilbert (325); and Scottie Shep-

These, plus others equally important to the effort, serve on the new committee.

Work parties take to the area every Saturday and Sunday. Employees and members of their families desiring to lend a hand are welcome. Employees working in the same departments with men mentioned above may contact them for assignments. Other groups or functions and even individuals may call CRA, ext. 1111, for specific jobs.

Astro Distributes Con-Trib-Club Cards

Over 11,100 membership cards, window stickers and pins have been distributed to Astronautics Con-Trib-Club members in recent

Any employee who is a member of Con-Trib-Club and has not received these items may contact Joe Frivaldsky of employee services, ext. 1111.

Pomona Net Team To Invade April 4

Astro tennis players play host to Pomona netters Saturday (April 4) in the first of a home and home series. The event will extend throughout the day at Morley Field.

Deadline for entering the Astro men and women's singles tournament April 11 and 12 is April

AFMTC Folk Help In TV Talkathon

Convair Astronautics employees assigned to the Astro operations at AFMTC who reside in the Orlando, Fla., area took part in a special cerebral palsy "TV Talkathon" on the March 21-22 week-

Heading the group were J. L. Brown, Lou Evans and Gordon Ne Ville, members of the board of the Astro Con-Trib-Club. They and other Astro employees from that area presented a \$500 check to the drive as part of the is directed by a volunteer or 48-hour observance.



nautics men and women who direct various CRA activities into huddles mapping out programs for future presentation.

Astronautics personnel at AFMTC have a wide selection of activities from which to choose their family fun. Each activity volunteers who coordinate plan-

summer seasons have sent Astro- employee services looks after the entire program.

> Currently in full swing is the basketball season. Astro has a team entered in a local Air Force league, playing games at several points each month. About 36 players are involved. Bob Tata is in charge.

A softball team is forming for a similar league under the direction of Carl Crockett. League action opens April 12. Uniforms are available.

CRA also sponsors a group of small games for use during lunch periods. Softballs, horseshoes, washers, chess, checkers and volleyballs are available in most areas.

Skin divers are planning a number of treks to the Florida Keys this summer. Life rafts are available and instruction allows swimmers to go from snorkel to novice to lung class. April 3 will find the divers taking part in activities at Guy Lombardo's center south of Miami. Ted Kauffman is leading planning.

Over 100 golfers have particited in a program dating back two years. Monthly tournaments are held throughout the area and as far away as Orlando. Jack Nichols helps direct the activity and also doubles in bowling.

The latter sport currently numbers some 225 participants taking part in three leagues. Summer leagues will be forming soon.

The "summer" fishing contest opens in June. Prizes are offered for top surf, deep sea and river catches, Frank Adams directing. Special prizes are awarded youngsters each year.

Rockhound Members Planning Trip Series

Astronautics Rockhound Club members will gather at 8 p.m. tomorrow (April 2) in the Astro cafeteria to begin planning a series of spring and summer events, including many weekend field trips.

The coming of better weather will enable campouts and extended treks over long weekends. affair to an area near Jacumba.

FLORIDA BELLES—Typical of many CRA activities pursued by Astro personnel at AFMTC is bowling, a sport that currently numbers 225 participants. Attractive keglers above have been bowling in leagues for past three years at Cocoa Beach. They are Eleanor Goldinger, Maria Metcalf, Bobbie Waddell, Billie Clopton and Grace Young.



Convairiety

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Astronautics Editorial Offices, Bldg. 2, new plant, ext. 1154. Staff: Bryan Wildershairmer, news editor.

Astronautics Editorial Offices, Bldg. 2, new plant, ext. 1154. Staff: Bellin Weickersheimmer, news editor.

FW Editorial Offices, Col. 69C, ext. 2961. Mailing address: Convairiety, Convair, Fort Worth, Texas. Telephone PErshing 8-7311. Staff: Bob Vollmer, news editor; H. A. "Pat" Baker Jr., Mary Beck.
Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8. Staff: James Combs Jr., news editor; Dorothy Keller.

Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.

GOLF SWEEPS SET FOR APRIL 11-12

Last field trip was a one-day tries may be made by calling 8. Contact Commissioner Larry



KUGGED IEKKIEK-Marines round pienty of cold, plenty of snow for weathertesting Terrier missiles in High Sierras recently. Center above is missile assembly area. Crane is used to handle ton-and-a-half Terrier. Storage containers are in snow at right. In upper right photo, twin missile carrier delivers missile to loading

be on display.

position on launcher. Lower lett: Convair Pomona representatives A. M. Grandfield and H. C. Stowers discuss tests with Maj. G. S. Mansfield, USMC, at rear of mobile test station, built at Convair Pomona. Lower right, Capt. J. K. Smola, Capt. R. M. Burke, 1st Lt. P. C. Flattery, Warrant Officer R. W. Green, all USMC.

World Congress of Flight Will See Atlas, B-58 and 880

Convair products will play a associations. major role at the first World Besides th Congress of Flight in Las Vegas, Nev., April 12-19.

Convair's 880 jet transport and the Atlas ICBM are expected to make public appearances at the congress which is sponsored by the Air Force Association in cooperation with leading U.S. trade

Murray Named To Omaha Post

Lester K. Murray, manager of Convair's Colorado Springs office for the past four years, has been assigned additional duties as acting manager of the Omaha office,

T. G. Lanphier Jr., Convair vice president, an-

nounced. Murray succeeds Gordon Graff who died

March 7. At the same time, Lanphier announced that Astronautics and Convair

Les Murray

Fort Worth each has appointed representatives to the Omaha office in liaison capacities. Astro's representative is W. J. Bettens, assistant design group engineer, and FW's is A. S. former chief pilot Witchell Jr. on the B-58 test program and most recently in customer service.

Murray has been with Convair since 1945, first in aircraft and guided missile flight test engineering and later as assistant to the vice president-long range planning. He was a World War II flyer and won the Distinguished Flying Cross.

SD CLUB CARNIVAL SET FOR APRIL 15

Balboa Park Club will be the setting for the Conavir SD Management Club's annual "Carnival night" and nomination of officers April 15.

Tickets for the affair, sponsored by fabrication departments, Plants 1 and 2, are now on sale through department representatives.

Nomination of officers, which usually adds a carnival atmosphere all its own, starts at 8 p.m.

A buffet-style dinner will follow the social hour which begins at 5:30 p.m.

Florida Kids Helping To Change Language With New Definition

The younger generation is definitely of the missile agein Florida, anyhow.

A book salesman was appearing before elementary school children on Merritt Island, residential suburb near AFMTC. Part of the sales pitch was to have them define dictionary and encyclopedia.

"And, do you all know what an atlas is?" the salesman

"Sure," came the reply. "Convair makes 'em and fires 'em at Cape Canaveral!"

Plant 2 is 'Bright as Broadway' **Under New Fluorescent Lights**

Outside lighting at Convair SD | done by plant engineering de-Plant 2 has been completely modernized with installation of fluorescent lights on all major buildings to replace the old-type incandescent lamps.

Besides the 880 and Atlas, Con-

vair FW's B-58 bomber, the F-

102 jet fighter interceptor built

at Convair SD, and Convair Po-

mona's guided missile Terrier will

Flight demonstrations of the

B-58 and F-102 will be held in

addition to static exhibits.

Arranged to spread world

knowledge of aircraft, missiles, and space craft, over 100 companies throughout the world have

indicated their participation. Dele-

gates from 35 countries will join

in jet and space-age symposiums.

completed under a \$39,142 conannounced.

Design of the layout to provide candescent lamp. approximately 400 per cent better lighting for Plant 2 at no increase in power consumption was 000 sq. ft.

partment under supervision of W. Brautigam, electrical and utilities supervisor.

The new fluorescent lighting makes it possible for work to be done in the outside area at night Work on the new lighting was without supplementary lights, explained Brautigam. tract with the SD branch of lamps provide better light distribution with less glare. Life for electrical contractors, Harry A. each of the new lamps is esti-smith, SD chief plant engineer mated at 7,500 hours compared to the 1,000-hour lifetime of an in-

The 178 new fixtures and

Snow and Sub-Zero Cold Fail to Daunt Terriers **During Mountain Tests**

BY JAMES COMBS JR.

(News Editor, Convair Pomona)

The first cold weather tests ever conducted in the field by the U.S. Marine Corps on Convair Pomona's Terrier surface-toair missile and its associated equipment were completed recently.

The tests were conducted during the first two weeks of February at the Marine Corps Cold Weather Training Center at Pickel Meadow, in the High Sierras near Bridgeport, Calif. Tests were conducted by "C" Battery, First Medium Anti-Aircraft Missile Battalion, augmented by necessary service troops, under the command of Capt. J. K. Smola, USMC.

Although exhaustive cold weather tests have been conducted on Terrier and other associated equipment in laboratories, at temperatures down to 60 degrees below zero, this was the first time that the missile had been subjected to extremely cold weather in the field.

It was also the first time that the entire Marine Corps Terrier missile system—the missile, launchers, radar, test equipment, etc.—had been subjected to cold weather tests as a complete system.

Among the equipment included in the tests were Convair Pomona-built AN/MSM 13 mobile missile test unit (Convairiety Nov. 27, 1957 and July 9, 1958). This is a truck-mounted mobile test station for units of battery

Except for minor discrepancies, which were corrected on the spot, Terrier and all of the associated equipment functioned properly throughout the tests.

(The Terrier system had already been proven suitable for desert climates through years of tests and routine operations at the U.S. Naval Ordnance Test Station at China Lake, and the Marine Corps Base at Twentynine Palms, both located on California's Mojave Desert. Terrier has also been subjected to all types of climatic conditions encountered at sea during tests conducted aboard the USS Norton Sound and USS Mississippi and operations aboard the USS Boston (CAG-1), USS Canberra (CAG-2), and the USS Gyatt (DDG-1).

Convair Pomona's A.M. "Al" Grandfield of engineering field services and H. C. "Herb" Stowers of engineering electronic test equipment group were present during most of the test period at Bridgeport. However, the tests were conducted entirely by U. S. Marine Corps personnel.

During the first week of the tests the weather remained relatively mild. Grandfield, who was in daily contact with R. W. Wollenweber, supervisor of field services at Convair Pomona, reported that the temperature was almost as high as that in the Pomona area during the day, although it dropped considerably lower at night.

On Monday of the second week, however, snow started falling and the temperature started dropping. By Wednesday, when a Convairiety staff member arrived in Bridgeport, at least two feet of snow had blanketed the area, and that night the temperature fell to about 15 degrees below zero. The following day the thermometer reached a high of approximately 15 degrees above zero.

All personnel participating in the tests (including Convair Pomona's representatives) were issued Marine Corps arctic clothing, which gave adequate protection against the extreme cold.





CONVAIR QUEEN - Beautiful Susan Beatty, 20, secretary in Dept. 15 at Convair SD, was proclaimed "Queen of the 1959 Yellowtail Fishing Derby" in San Diego which is under sponsorship of the local Junior Chamber of Commerce.

Convair Joins Pilot Society

Convair, a division of General Dynamics Corporation, recently became a corporate member of the Society of Experimental Test

The society was founded in September of 1955 to unite the efforts of experimental test pilots toward promoting aeronautical design, flying safety, and the art of test flying through interchange of information, without affecting the competitive structure of the industry.

Convair engineering test pilots have from the beginning played an important role in the organization. R. L. Johnson (Edwards), former vice president of SETP, and D. P. Germeraad (San Diego) were elevated to the grade of associate fellow in 1958, and John Fitzpatrick (Holloman), former program chairman, was elevated to that grade last month. C. E. "Chuck" Meyers (Ed-

wards) served as secretary last year and was elected vice president this year. W. H. Harse and J. K. Stuart (both Edwards) and J. M. Elliot (San Diego) have been members since 1956. Harse is currently serving as chairman of the escape and equipment com-

Present activities of SETP are centered about the air collision problem and the contribution of the professional test pilot to the Holland, director of TV progr

Tracy Brooks In New Post

Tracy Brooks has been appointed to the new post of college relations administrator for Convair, R. H. Biron, vice president-administration, announced.

Brooks, formerly executive development administrator for Convair SD, will coordinate the recruiting activities of all divisions of Convair.

A native of Chicago, Ill., Brooks came to Convair SD in February of 1945 as a job analyst in industrial relations. In 1946 he transferred to engineering as personnel engineer and was appointed engineering personnel administrator in 1948. A year ago he was named administrator of executive development.

Brooks holds a B.S. degree in business administration from the University of Michigan. Before joining Convair he had been a management consultant for Booz, Allen and Hamilton in Chicago, and previous to that personnel manager at U. S. Cartridge Co. of St. Louis, Mo., and Carnegie-Illinois Steel Co., Chicago.

CONVAIR DAUGHTER TV STAR AT AGE 4

A veteran trooper at 4 years old, little Bobbie Lynn Cardenez, daughter of Clarita Cardenez of Convair-SD Dept. 603, is now appearing weekly on television.

Bobbie, who has been doing her special tap dance and acrobatic routines before the public since she was 21/2, is being featured on the Vincent Marasco TV Showhouse over Channel 6 Friday evenings and Saturday mornings.

Television is nothing new to the little performer who has already danced on Panorama Pacific, Queen for a Day, and the Harold Keen show.

A specialty is the cane dance, which is rarely attempted by children under 10. According to her mother, Bobbie would rather practice her steps than play. "In fact, to Bobbie, her dancing IS play!"



TROUPER-Little Bobbie Lynn Cardenez receives plaudits from her mother, Clarita Cardenez of SD Plant 2 (Dept. 603), and Byrd on which Bobbie appears weekly.



"Let's just stand here and rest a minute . . . my feet are

KILLIN' me . . . '



BE-WITCHING—Fran and Vic Westfall (SD Dept. 129) proudly display new "home," 35-ft. Danish-built cutter, "Red Witch."

In Danish-Built Home Afloat (Convair SD-Dept. 129-0) is settled in its new home.

No Yard to Mow

In this case, the Westfall home is—as it has been for over five years—aboard a boat tied up at the Silver Gate Yacht Club on Shelter Island at San Diego. But, as of a couple of weeks

Westfall Family Settles Down

ago, Mom, Pop, Vicki, 11, Clyde, 9, and Chela, the family cat, moved into the three cabins of their new 35-ft. Danish-built cutter, called the only boat of its type in existence.

Westfall climaxed several years' planning when he took delivery of the "Red Witch" at Newport Beach last month. The boat, designed by the Copenhagen marine architect, Knud Hansen, from 150-year-old plans of an

built by a Danish boat-building family of three generations.

The sail boat had been in the building since August of 1957. "Unique features of the 'Red Witch,' as we have named her, attracted so much attention that she was kept in Denmark several months after she was finished so that people from all over Europe could see what she looked like, Westfall said.

The boat carries the original cutter rig with three head sails a square sail, topsail, and gaff head main sail. It is the first boat, less than a 45-footer, to be built with a "great cabin aft" (cabin in the stern).

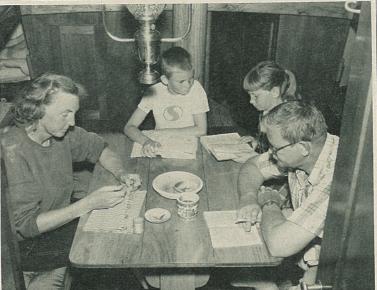
It sleeps six, two bunks in each of the three cabins. Each cabin has its own hatch and plenty of clearance-6-ft. head room. The boat is equipped with a Mercedes-Benz 37 hp engine for auxiliary power.

"It is strictly a cruising vessel," explained Westfall. "There is no electricity aboard. Kerosene is used entirely for all purposes -cooking, heating, and lighting."

Mrs. Westfall said that she enjoys the simplicity of keeping house in a boat. "It only takes half an hour to have everything spotless, and when the deck is hosed down, the yardwork is done, too!" Having two industrious brass polishers in the family makes the work easier yet as both Vicki and Clyde like to keep the knobs and fixtures shining.

Ordered through Scandia Imports of Newport Beach at a cost of \$24,500, the cutter arrived in Wilmington aboard the SS Lionsgate after a month's voyage from Copenhagen.

For the present the Westfalls will be sailing their "Red Witch" to nearby places on weekends, but eventually they hope to strike out on a world cruise.



COZY—The Westfalls (left to right)—Fran, Clyde, Vicki, and Vic—gather in main cabin of "Red Witch" for cozy evening of homework, reading, sewing.

Trick of 'Toe-Sliding' Trombone Takes Astro Man on Europe Tours

trombone are fairly commonplace tronautics man plays it with one

That's right, he pumps the slide with one end firmly clinched between his first two toes.

Clyde Helmer, a member of Astro's communication department, has been utilizing this trick for almost a decade. It has earned him two world tours, a nationwide television appearance, plus the opportunity of performing before some 50,000 persons around the globe.

Helmer learned to toot his trombone at a Biwabek, Minn. high school. To break the monotony of rehearsals he used to slip off one shoe—and use his foot to work the slide. That started it.

Moving to California, Helmer enrolled at UCLA and forgot his old trick. He did gai trombonist with Red Nichols and Pete Daly and took his own group, the Rampart Street Six, to a Dixieland Jubilee in Los Angeles, considered the "world's series of jazz.'

Armed with a music degree, Helmer found his career interrupted by a tour of service duty. He reported to Fort Ord and promptly landed a place in the

"Musicians were plentiful and knew sooner or later I would have to take up 'KP' duty, a disheartening chore to me," Helmer said. "So I revived my old trick and started to appear as a soloist and novelty act at base

His fame spread and Helmer jumped from one service show to another. He transferred to Fort Lee, Va., and promptly won an Army talent show. He later appeared with Arlene Francis on her nationwide "Talent Patrol" TV program.

Next came an invitation to tour Far East Army bases and he tooted and pumped across Alaska,

Brassy renditions of the Formosa, Okinawa, Japan, Ko-Twelfth Street Rag" on a slide rea, Hawaii, Panama and the Caribbean area much to the dein jazz circles, but a Convair As- light of the Armed Forces at each point.

Helmer came up for discharge, then turned around and signed as a civilian performer with the USO for a tour of Europe. This lasted six months.

Friends are still amazed at Helmer's contortions in playing footsy" with his trombone. Six feet tall and 230 pounds, he has to "reach over" a 42-inch waist-

Helmer is still a feature attraction in jazz circles at a Del Mar club called the Powerhouse. Few weekends go by that he is not asked to remove a shoe.

"It's old stuff now, but I still wear out a few pairs of socks each month," Helmer said.

Jet, Rocket Experts Attend Institute

About 100 jet and rocket combustion experts attended the March 23-24 session of the Western States Section of the Combustion Institute co-sponsored at San Diego by SD State College and Convair scientific research department.

Main banquet speaker was Dr. Edward P. Ney, professor of physics of the U. of Minnesota, who talked on "Van Allen Radiation Belts-Artificial and Natu-

Among subjects covered by the 15 technical papers read during the two-day meeting were problems of detonations in solid propellants and experimental research in high-energy fuels.



TOE TALENTED—Clyde Helmer of Astro demonstrates technique that won him two world tours, nationwide TV appearance and many fans while an Army enlisted man. Six-foot, 230-pound Helmer still performs feat before local audiences. His favorite is "Twelfth Street Rag."

Stromberg-Carlson Stresses SCATE Sale

ROCHESTER — A new sales force with exclusive responsibility for the sale of SCATE—Self-Checking Automatic Test Equipment — in Stromberg-Carlson's Electronics Division has been an-

SCATE is a pre-programmed, automatic computer-type test system which can reduce the time required to check modern weapon systems from hours to minutes.

SCATE can be adapted to test any missile, aircraft, or ground electronic system.

NEWS FROM OTHER DYNAMICS DIVISIONS

General Dynamics Corporation, created in April, 1952, as successor to Electric Boat Company, is composed of six divisions and a Canadian subsidiary, Canadair Ltd. of Montreal, airframe builders. The divisions are:

Convair, head offices at San Diego, Calif., aircraft, missiles and space systems.

Electric Boat of Groton, Conn., submarines.

Stromberg-Carlson, of Rochester, N.Y., telecommunications, electronic equipment.

Liquid Carbonic of Chicago, Ill., carbon dioxide producer, industrial and medical gases.

General Atomic of San Diego, Calif., nuclear research, development, production.

Electro Dynamic of Bayonne, N.J., electric motors, generators.

Canadair 540 Starts World



The first 540 will visit 19 North American cities in the next two months and cover 12,600 miles in point-to-point flights. First stop is Utica, then on to New York, Washington, Atlanta, Houston, Dallas, Fort Worth, Las monton, Calgary, Vancouver, Seattle, San Francisco, and Los

Angeles. **Electric Boat Gets**





GROTON — Submarine sailors soon will operate nuclear subs and fire ballistic missiles from the ocean depths-without ever

An electronic simulator, called the "submarine FBM (fleet ballistic missile) training facility," will make the land-based training of missile sub crewmen possible, according to an announcement

Electric Boat has been selected struction of the unique simulator's diving, steering and navigational systems under a \$11/2 million contract with the U.S. Naval Training Device Center, Port Washington, N.Y. The missile fire-control system has been assigned to Curtiss Wright, with General Dynamics responsible for technical integration of the entire project.

Sub Missile Device

leaving port.

made by the Navy.

to undertake the design and con-

Senior Citizen In Retirement

A partnership of over 35 years came to a close last month.

Leo Bourdon, well-known and well-loved figure at Convair San Diego, has retired, ending an active association of man and company, dating back to pre-Convair days in Greenwich, R. I., and Buffalo, N. Y.

In point of service, Bourdon was Convair's most senior citi-

He came to San Diego with Consolidated in 1935 and served in various capacities as superintendent and foreman.

Looking back, Bourdon recalls his association with Convair as a happy one. "It gives me satisfaction to think that I grew up with Convair, with mutual benefit to both of us," he said.

Bourdon, now 72, has not made elaborate plans for his retirement, but has always been an



ORVILLE WRIGHT-Just after completing a flight in De Havilland 4 is Orville Wright, left, and Howard Rinehary, chief pilot of Dayton-Wright Airplane Co.

Gallaudet Co. Dissolved After Study by Fleet

(Consolidated Aircraft, from which Convair stemmed, was created in 1923 from the assets of Gallaudet Aircraft plus designs and engineering talent from Dayton-Wright Co. Following is another installment in a continuing history of Convair which relates the end of Gallaudet and describes some of the early history of Dayton-

over direction of Gallaudet Aircraft Corp. as general manager in the fall of 1922 (at a time when the company had lost nearly \$3 million since World War I) the directors asked Fleet to study the operation from the inside for three months, then report back.

He did—with the conclusion Vegas, St. Louis, Chicago, Detroit, Minneapolis, Winnipeg, Edthy of perpetuity or continuity, and would not bring more than \$100,000 if you could find a buyer." In addition, he reported that he wanted to form a company of his own, with his own resources, and offered the directors this proposition:

"I will finish off your contracts. Since labor will lag at cutting off its meal check, I will use the men on my own work as they are available, and pro-rate the labor costs. I will charge my salary fifty-fifty to you and me. I will use materials from your stock room on my own work, at cost plus 10 per cent. For rent, I will pay you 10 per cent of my own profits, if any. Thus, I will kill off your company to your best advantage while establishing my own."

The directors were deeply distressed, but decided to accept Fleet's offer. The major there-upon set about forming Consolidated, which he organized as a Delaware corporation with an authorized capitalization of \$60,-000 in shares of \$100 par value. Actually, only \$25,000 was issued; Fleet subscribed \$15,000 and his sister, Lillian Fleet Bishop, \$10,-000. For aircraft designs and an

When Reuben H. Fleet took | (Dayton-Wright Co.) at Dayton.

Dayton-Wright had a history of

In 1915 Orville Wright sold his Dayton factory and patents to the Simplex Automobile Co. syndicate and the next year entered into a period of informal collaboration with Charles F. Kettering, inventor of the auto selfstarter.

Early in 1917 Kettering organized the Dayton Airplane Co. with three associates—E. A. Deeds (later the head of National Cash Register); Col. Harold E. Talbott, a paper mill and power plant industrialist; and the latter's son and business associate, Harold E. Talbott Jr. (later Secretary of the Air Force). Wright was retained as consultant and the company put up a shop and hangars at South Field, near Dayton.

With additional capital supplied by a Detroit group, the enterprise was reincorporated as the Dayton-Wright Airplane Co. on April 9, three days after the U. S. entered the war.

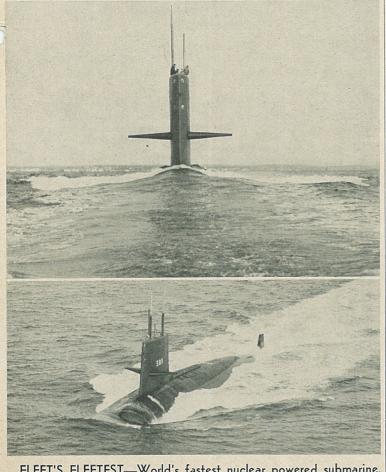
Dr. J. K. Leverett Given **President Citation**

Dr. J. K. Leverett of Convair Worth this month was awarded a Presidential Unit Citation and Presidential Unit Citation Ribbon Bar transmitted to him through the commandant of the Eighth Naval District at New Orleans.

The citation came as a result of Dr. Leverett's service with the First Marine Aircraft Wing during the Korean War. Dr. Leverengineer, he turned to General Motors, which had decided to physician and head of personnel close out its aircraft subsidiary department's medical section.



LEISURE TIME—Leo Bourdon, Convair's most senior citizen, recently retired, takes pride in landscaping and flowers at his San Diego home.



FLEET'S FLEETEST-World's fastest nuclear powered submarine Skipjack, built by Electric Boat Division, shown in dramatic photos taken during builder's trials last month. Note blimp shape and diving planes on "sail" (formerly known as conning tower).

Guards Need Photo Memories To Keep up on Different Badges

Security guards at Convair SD aren't memory experts but sometimes it might help.

Seventeen new badges and three new identification cards issued last month to various customer representatives and other outside groups skyrocketed the total guards must remember.

must be familiar with roughly 600 signatures (those authorized to sign passes), 40 badges, 19 different identification cards and over 700 cars with in-plant clear-

And many of the "old-timers" know the faces that go with the badges, cards, signatures and

'Space Exploration' **Bossart Talk Topic**

"Space Exploration Problems" assistant to Convair's vice presimeeting of the American Society for Metals at the Lafayette Ho- or as police officers. tel. San Diego.

Bossart's lecture was an introduction to this month's ASM educational program on space metals. Durst said

Sooner or later, because guards switch duty locations from day to day and change shifts every four weeks they become personally acquainted with the varying aspects of Convair SD's security set-up.

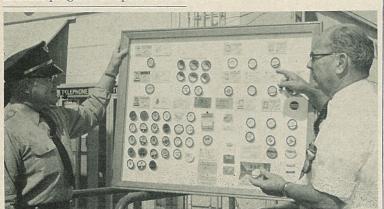
In addition, to enable guards to keep pace with changes, peri-For security's sake, guards odic classes are conducted by commanding officers.

"Headquarters" at both Plants 1 and 2 are the focal points of

Located at each are master keys for Convair offices, buildings, files, etc. Close tabs are kept with the plant fire department and the San Diego Civil Defense set-up and in case of emergency both locations are equipped to take over the plant's speaker and radio loud-

C. M. Durst, guard chief, said members of the security force was the topic of K. J. Bossart, come from all walks of life but that the majority have had some dent-engineering, at the March 26 prior association with law enforcement in either the military

"Because they are constantly dealing with people, their job is one of public relations, also,'



COUNT 'EM—C. M. Durst, SD guard chief (right), points out additions on badge board to Capt. John Cooper. Additional badges and cards issued last month swelled total guards must remember. avid hobbyist.



SERVING NOW-Astronautics' CRA Women's Council held annual election of officers last month. Shown during business session are, standing, left to right, Bessie Wood, secretary; Jean Cassidy, president, and Edith Larson, treasurer. Seated is Jean Bryan, CRA women's activities commissioner.

Other appointments made with-

men, Lee Stone and Dixie Hu-

sted; and refreshment chairman,

director of the Astro CRA beauty

and charm program, while Mrs.

Stone directs the women's golf

Development, featuring all-

around team play and consistent

defense tactics, swept two games

straight from Test Data to win

the first Astronautics plant bas-

Development came through the

tough Wednesday section to win

after dropping two games during regular play. Test Data, on the

other hand, swept the Friday sec-

The first of a best two-of-three

playoff series was won by Development, 33-27. The second

game also went to Development,

Bus service connecting Convair

Astronautics and Westgate ware-

house became effective this week.

Two station wagons make the

round trip at 45-min. intervals

throughout the day. The first bus

departs Astro at 7:30 a.m. and the last bus departs at 3 p.m.

HONOREE — Second missile

man-of-the-month award made

by Astronautics Management

support. Making presentation is

Development

Hoop Champs

ketball title last month.

tion undefeated.

ASTRO SCHEDULES

NEW BUS SERVICE

Mrs. Jorgenson also serves as

Edith Larson.

Jean Cassidy Will Head CRA Women's Council

Jean Cassidy, a veteran leader | growth of the recreation program of Convair CRA activities for for women. women, has been named president of the Astronautics CRA Wom- in the council include: program en's Council, according to Jean chairmen, Elaine Jorgenson and Bryan, CRA women's activities Rusty Walker; publicity chaircommissioner.

Others named to office were Bessie Wood, secretary, and Edith Larson, treasurer.

Mrs. Cassidy, a tooling department secretary, was a charter member of the CRA group which is responsible for coordinating all activities for women. She served during the past year as secretary. Prior to her transfer to Astronautics, Mrs. Cassidy was program chairman for a similar CRA group at Convair Fort Worth.

Mrs. Wood (Dept. 100) has been a member of the Women's Council for the past six months and has taken an active part in several programs to date.

Miss Larson is another charter member of the Astro council. She has been a key figure in the

Log Book Entries **Promotions**

ASTRONAUTICS

ASTRONAUTICS

Promotions and transfers to or within supervision effective March 16:
Dept. 120, Communication: To asst. supervisor graphic reproduction, D. E. Howe. To graphic reproduction asst. supervisor-planning, A. L. Ridgeway. To graphic reproduction supervisor, M. A. Young.

Dept. 190, Controller's Office: To chief of data processing, F. J. Knight.

Dept. 193, Industrial Accounting: To accounting asst. supervisor, I. T. Walsh.

Dept. 214-2, Stores and Traffic: To traffic asst. supervisor, R. S. Hughes.

Dept. 305, Support Planning and Control: To support data systems supervisor, J. W. Helgeson.

Dept. 342-3, Support Quality Control: To inspection asst. supervisor, Gr. III, A. Dickman.

Dept. 521, Asst. Chief Engineering Administration: To engineering facility planning supervisor, E. A. Brauer. To engineering practice standards supervisor, T. H. Brunner. To engineering services asst. supervisor, D. L. Lame. To engineering task control supervisor, J. A. Lasater. To engineering office administration supervisor, D. H. McCoy. To engineering task control sast. supervisor, J. L. Mumford, A. E. Ruark. To engineering services group supervisor, D. J. Sullivan.

Dept. 731, Machine Shop: To asst.

engineering services group supervisor, B. J. Sullivan.
Dept. 731, Machine Shop: To asst. foreman, Gr. V, J. A. Wolf.
Dept. 771, Mockup Proofing Primary and Final Assembly: To asst. foreman, Gr. III, R. A. Deutschman.
Dept. 773, Missile Checkout and Acceptance: To asst. foreman, Gr. III, L. A. Denver.

ceptance: 10 asst. foreman, Gr. 111, D. A. Denoyer.

WARREN AFB

Dept. 351, Warren AFB: To material general supervisor, R. W. Mendenhall.

To asst. foreman, Gr. V, R. A. Dacon.

Personals

ASTRONAUTICS

We shall always be grateful to the host of Convair friends at both San Diego and Astronautics Divisions for the many kindnesses, beautiful flowers and messages of sympathy at the time we lost our husband and father, Ted B. Jensen Sr., Dept. 115 SD.

Eileen Jensen—Astro Dept. 500
Ted Jensen—SD Dept. 14-7

Births

ASTRONAUTICS
EVANS — Son, Raymond Anthony, 9
lbs., 9% oz., born March 15 to Mr. and
Mrs. R. A. Evans, Dept. 771.
AFMTC

KAMINSKI—Daughter, Diane Patrice, 6 ibs., 11 oz., born March 18 to Mr. and Mrs. L. T. Kaminski, Dept. 571-4.

Deaths

ASTRONAUTICS
HARDING—George V., Dept. 454, killed in air crash March 22.

Fires Laid to Carelessness

A special warning to all Astronautics personnel was issued this week by Fire Chief A. C. Anderson following an outbreak of minor blazes caused by care-

During the first three weeks of March the fire department was called out to extinguish four fires in rubbish containers and waste baskets. They were caused by discarded cigarettes or dumping ash trays containing live cigarette stubs.

"These were caused by gross carelessness on the part of individuals," Anderson said. "Fortunately, they were reported early and extinguished promptly. The next time we may not be so fortunate."

In addition to rubbish fires, others were caused by welding during the same period. Anderson cautioned that all areas to be used for welding must be checked by the fire department and permits issued. Employees are asked to report violations of this rule to the department, ext.

Astro Travel Group 'Rolling'

A new Astro Travelers group is really "rolling" in every sense of the word these days.

Thirteen trailer families were on hand for a March 14-15 camp out session at Ocotillo.

A similar trip to the same location is being planned for April 11-12.

During the March outing officers were named for the coming year. Elected were: Art Wright-son, president; Bill Barth, vice president; and Jerry Janda, secretary-treasurer.

Tonight (April 1) a business meeting will be held at 7:30 in the Astro presentation room, Bldg. 2. All trailer families are invited to attend.

Astro Divers Shine During Competition

Astro Divers scored some impressive wins during the San Diego Council of Skin Diving Clubs meeting held March 22 at the La Jolla Cove.

The Astro "sea bottom pro-

bers" garnered two firsts, one second and two third-places, far ahead of the nearest competing club.

Firsts went to Jorge Zorrilla for the largest shovel nose shark, hand caught, and to Keith Kaonis for the greatest weight in spiny sea urchins. Kaonis was 20 pounds ahead of the second-place winner. Bob Nicholas copped a second in the greatest weight, star fish class. Herb Boynton took a third in the star fish class and Derek Walton brought up the third largest abalone.

Ticket Prices Cut For Sleeping Beauty

Astronautics' CRA women's activities is sponsoring a special 'family night" event April 30 for "Sleeping two performances of Beauty" at the Capri Theater.

A limited number of tickets will be available beginning April 6 through employee services outlets. They sell for \$1 each, a savings of about one-half of normal prices.

Tickets will be available on a first-come, first-served basis. Seating at the theater will be on the same basis. No reserved seats are available.

CRA has tickets for the 6 p.m and 8:30 p.m. performances.

Golfers Will Watch Casper, Bolt Movie

Club during March went to J. M. "Duke" Rogers of product Astro golfers gather at 7:30 tonight (April 1) in the presentation room, Bldg. 2, for a dual W. J. White, also of product event. One will be a filmed golf support. Rogers was pro-tem match featuring Billy Casper and president of club during organiz-Tommy Bolt. Final plans for the ing period, once served as presi-Astro twilight league will be dent of San Diego Division Club. | mapped out at the same time.



SOME CAKE-C. C. Farnsworth, Astronautics purchasing agent, celebrated his 25th "birthday" with Convair last month, which prompted fellow workers to come up with this twin-cake party for him. "Farny" does honors.

Summer Keg Loops Sound First Call

First call for summer bowling leagues went out this week at Astronautics where a special committee has been set up to assist in registering.

Commissioners Jack Boyle and Willard Brassell announced this week that summer action will get under way in late May. However, all leagues will be formed and filled by that time.

Entry blanks are now available through Astro industrial relations outlets. To assist newcomers the following men and women may be called for information: Irv Campbell, ext. 1166; Ed Frankowski, ext. 1160; Vic Salgado, ext. 1116; Frank Budz, ext. 860; Bill Geopfarth, ext. 2139; Lorraine Sweeney at Sycamore Canyon; Nancy Tatum, ext. 1401; and Ed Lou, ext. 1116.

MacNabb Emcee At Test Meeting

Four Convair Astronautics men took part in a special "flight testing conference" staged by the Florida Section, American Rocket Society, last week at Daytona Beach, Fla. B. G. MacNabb, Astro's opera-

tions manager at the AFMTC, is the 1959 president of the Florida Section. He served as toastmaster at a March 23 luncheon and as chairman of a flight experience meeting held that night. George F. Rugge Jr. of Astro's AFMTC operation, was vice chairman. John S. Harrison of Astro-AFMTC, led an Atlas missile instrumentation checkout session the following day.

On March 25 participants visited Atlas facilities on a tour of AFMTC.

CRA Discount Tickets

The following tickets, discount items, are available through employee services outlets:

ATLAS PINS — Special lapel, tie clasps featuring Atlas replica at \$1.30 each.

DECALS—Astronautics decals suitable for windows, cars, 10 cents each.

DISNEYLAND — Memberships in Magic Kingdom Club allowing discount rides, admission to Ana-

MARINELAND-Discount tickets for Palos Verdes show place. ROLLER SKATING - At Skateland April 20, no charge. SLEEPING BEAUTY—Tickets

(\$1) for April 30 performances, 6 and 8:30 p.m

SPACE PRIMER - An introduction to astronautics, 10 cents

Bob Combs Director Of Bridge Activities

Bob Combs of Dept. 532-1 has succeeded A. N. Bowden as director of Astro Bridge Club af-

Combs announced this week that April 16 and 30 have been reserved for play. The April 16 meeting is a master points tournament. Play is held at the Barcelona Club, Fourth and Juniper. little theater.

COIN SALES BRISK AT CLUB AUCTION

Astro Coineers, proud of a March auction event which saw 20 members put up and sell 30 lots of coins, are planning a duplicate event for their April 15 meeting at 7:30 p.m. in the Astro cafeteria.

This event will allow club members with duplicate coins to sell and perhaps buy new coins.

A new feature will also be introduced at the April 15 event. It will be the presentation of an Atlas trophy to the collector with the best exhibit of coins that night. Subsequent awards will be made at future meetings. Door prizes and refreshments will also be available.



ASTRO DAUGHTER-Lovely Robin Cowell, daughter of La-Vere Cowell of Astro's Dept. 120-5, was first contestant in initial "Miss Angel" contest to be staged by Ream Field Navy helicopter organizations. Robin is just 16, interested in ballet and

Sports & Recreation Convairiety

Ring Prepared at Astro For Spring Horse Show

An all-day horse show featur- forming after lunch. ing some of the top riders and mounts in Southern California comes off Sunday (April 5) at the Astronautics CRA horse ring near the Astro plant.

Billed as a "Spring Horse Show" by the sponsoring Astro Riding Club, events begin at 8:30 a.m. and continue throughout the

Riders of all ages will take part. Events include various English and western classes, hunters, three and five-gaited, trail horses, jumpers and stock horses. A majority of eyents for juniors come off in the morning, with more advanced riders per-

F. W. Augustine, CRA com-

missioner, reports the show is accredited by the San Diego County Horse Trainers Association and as such will feature points toward annual high point awards presented locally.

The Astro riding ring is rapidly taking shape for the event. Volunteers have made many improvements since the initial show was held last fall. Welcome additions are some 300 temporary seats for fans.

There is no charge for the show and all ages are welcome. Refreshments will be available throughout the day.



HORSEY SET—Setting up final details for spring horse show sponsored by Astro Riding Club was this quartet of workers. They are, from left, Shirley Terry, F. W. Augustine, commissioner, John Brunson and Mrs. Augustine. Show April 5 runs all day, is free to spectators.—Photo by Bill King, Astrolens.

Astro Sports Car Club Sponsors 'Atlas Rally'

Sports Car Club will be a honey.

For over two months the Astro group has been planning, re-planning and mapping out a course which will carry an estimated 120 entries over 200 of the most interesting miles of Southern California. This navigational event will last seven hours.

Start is from the Astronautics

Archers to Gather For Combined Shoot

Convair archers from both Astronautics and San Diego will gather at 9:30 a.m. April 12 for a combined event at the Astro

Participants may shoot either

If hard work is any indication, parking lot beginning at 8:01 then the first annual "Atlas a.m. April 12. At one minute in-Rally" sponsored by the Astro tervals the field will depart. Finish and site of the award presentation of 54 trophies, plus the

> Some 60 Astro drivers have been engaged in planning the Club event in which Astro skiers event. Maximum timing accuracy will be possible through special

Bill Rector, CRA commission-er, is rallymaster. Heading special committees are: George Kendall, Jack Stevens, Sandy and Doug Evans, Al Mair, Mel Gor-duyn, George Blondin, Dave Ste-phens and Bill Lester.

This will be the Astro club's annual sponsorship of an event ext. 2167, is accepting reservafor the San Diego Council of morning or afternoon rounds, or Sports Car Clubs. For this rea- 1163, is coordinating ride reboth. Astro archers are spon- son, no Astro drivers will participate, Rector said.



RARE COMBO—Combination of sleek Mercedes Benz, Astro plant and sightly trophy is enhanced by Nancy Williams (Dept. 521-7) who has been named Miss Atlas Rally for forthcoming event sponsored by Astro Sports Car Club. Competition April 12 will draw top entries from throughout Southern California.



RING LEADERS ALL—Successful development of full recreational program at Convair Astronautics has been possible largely through efforts of these men, all members of CRA Employees' Council. Ken Rinker, Astrolens commissioner, took this group shot at recent election of officers.

Clubs Produce 28 Keg Teams

Twenty-eight teams, 19 from Convair SD and nine from Astronautics, took part in a Convair Management Club telegraphic bowling tournament March 8 at Tower Bowl.

High scratch team honors went to a Dept. 31 team from San Diego Division with a 2,629 total. Team captain was J. Hammer.

High handicap series was won by the Astro Five with a 2,929 total. Frank Budz was team captain. Team members included Bill Geopfarth, J. Moore, Morrie Baxter and Forrest Erwin.

High individual series was copped by Dale Mansfield of San Diego, while Frank Budz of Astro took high individual handicap series with a 662. Mansfield also shot a scratch 233 game while H. L. Williams of Astro turned in a handicapped 256.

Lack of Snow

Snow and the lack of same continues to influence the activities of the Astro Ski Club, reports Bob Weaver, CRA commissioner.

A March 21-22 race competition slated for Big Bear had to be cancelled due to the lack of ground covering. Race trophies drawing for many door prizes, purchased for this event will be will be the Aztec Steak House. retained for presentation during an April 11-12 Convair SD Ski will participate.

The April event is scheduled telephone equipment used in for Mammoth Mountain. A specheck point areas. skiers unable to negotiate the regular course. Two sets of trophies will be available.

Final plans for this event will be discussed tonight (April 1) at 7:30 in the Astronautics executive dining room. Deadline for entering is April 11. Ron Grant, tions, while Lillian Poltere, ext. quests.

Model Railroaders Meet Every Week A small but enthusiastic group

of Convair Astronautics model railroad builders meets weekly with the San Diego Model Railroad Club.

Those interested in model railroading are invited to attend the 7:30 p.m. work-play sessions, according to Dave Fyffe. Gatherings are in the House of Charm, Balboa Park.

Astrolens to Host SD's Camera Club

The Astrolens will roll out the welcome mat for the first time April 13 when they play host to the Convair SD Camera Club in a special 7:30 p.m. model shoot set for Astro's executive dining room.

The shoot will mark the first of a series of exchange visits with local camera groups, reports Ken Rinker, CRA com-missioner. Karol Gentry of Astro's purchasing department will pose.

Fred Niece and Nancy Tatum Capture Plant Key Crowns

Fred Niece and Nancy Tatum All scores and places mentioned now reign as "king and queen" above are with handicaps. of Astro bowlers, following their all-events victories in the recent Astronautics plant championship tournament held during April.

Niece took the men's all-events title with a total of 1,937 pins, 35 better than Gene Gerndt. Nancy Tatum copped the women's bracket with a 1,634 total, 32 pins better than Marie Foulke.

The men's singles went to Niece with a 690 total, while Olivia Risinger won the feminine singles with a 590. Harry and Dorothy Lund took mixed doubles honors with a 1,165 total. Ray Mathews and Jack Palmer eked out a onepin 1,306 victory over Don Vance and Jim Miller (1,305) for the men's doubles title.

The men's team event was won with a 2,988-pin total by Dick Williams, Augie Rodriguez, Herman Brehmer, Jim Hayes and Joe Ragusa. Mixed team honors found a 2,921-pin total winning for John Hynd, Clayton Raffleson, Jennie Hynd, Dory Bucaro and Sam Bucaro.

Another Softball Meeting Planned

Seventeen teams sent representatives to an initial CRA shop softball league organizational meeting held at Astronautics March 20.

However, more teams can be accommodated prior to the mid-May start of competition, accord-

ing to Ray Mendoza of CRA. Friday (April 3) at 5:15 p.m. another organizational meeting will be held for those teams who did not have a representative on hand at the first gathering. Those present for the initial meeting need not attend.

EL CAJON VALLEY LEAGUE PLANNED

Application blanks for an El Cajon Valley summer bowling league are now available through

In scratch events Ray Meditrowicz had high men's series with a 639; Nina Rohde paced the fems with a 578; Jim Miller's 256 game was high for the men; and Sue Nungezar's 231 led the women.

Special award ceremonies for all winners come off today (April 1) at the Astro cafeteria shortly after the end of the first shift working hours.

JOINT BADMINTON TOURNAMENT HELD FOR SD AND ASTRO

San Diego and Astronautics badminton players joined March 14 for one of the largest tournaments ever held under CRA sponsorship. Some 40 players participated in the Federal Building event.

Jim Poole (SD) downed Dick Mitchell (Astro), 15-8, 18-17 in the "A" men's singles. Joe Seewerker (SD) won by default over Al Pfenninghausen (Astro) in the "B" singles, while Ray Justice (SD) topped Les Marr (Astro) by 6-15, 15-2, 15-3 in the "C"

Men's doubles honors went to Bill Johnstone and Dennis Sealey (SD) over Poole and Tom Richardson (SD) by 15-10, 15-1. Mixed doubles found John Leib (Astro) and Carol Minter (SD) topping Dick and Evelyn Mitchell, 15-1, 15-12.

Miss Minter won the "A" ladies' singles in an 11-8, 11-1 set with Florence Carlson (Astro). Mrs. Mitchell and Florence Carlson won the fems' doubles with a 15-13, 15-14 win over Miss Minter and Charlotte Munson

Consolation winners included: Katie Marr (Astro) over Jane Williams (Astro); Alan Van Norman (SD) and Les Marr over Astro employee services. Singles or teams may enter. Call Charles abanan (Astro); and Les and Kushera, ext. 1166, for informa- Katie Marr over Ray and Judy Justice (SD).



TURN ABOUT-Ever since Astrolens, CRA camera group, began helping CRA publicize its events, Larry Tuttle, left, has been one of top lensmen. Convairiety has published more than 25 of his pictures. Ken Rinker, Astrolens commissioner, snapped this as Tuttle and Vern Prestige, right, made pictures of Shirley Kuenne during recent shoot. That's Marshall Jones, adding to effect with soap bubbles.



FLOATING?—Camera angle gives impression that cocooned F-102 is floating like a blimp with nose attached to crane. Actually, it is swinging from sling. Planes were unloaded from aircraft carrier recently at Naha, Okinawa, after trans-Pacific crossing.



Two F-102A squadrons have

Geiger Field's 498th Fighter-Interceptor Squadron at Spokane, Wash., was nominated in February for the Air Defense Command flight safety certificate of meritorious achievement.

The F-102 equipped FIS completed an entire year of flying without suffering an accident. The unit flew 6,660 hours without accidents from January, 1958, through January, 1959, Lt. Col. F. D. Willis, squadron commander, announced.

Last accident charged to the 498th occurred early in January, 1958, while the squadron was deployed for missile firing practice at Tyndall AFB, Fla.

The 482nd FIS at Seymour Johnson AFB, Goldsboro, N. C., was presented a plaque for accident-free operations from October, 1957, to October, 1958. According to base officials, the 482nd, commanded by Lt. Col. James Thomas, has not had an accident since then.



Convair people and an AF officer received recognition for safe fly- assigned to Convair fatally in-

jured in light plane crashes and auto accidents.

Lorrain Clark of Convair SD Dept. 230 was fatally burned in a crash of a light plane near Camp Pendleton March 21. Mrs. Clark has been with Convair for nine years.

Pilot of the plane, James Saftig, SD Dept. 230 supervisor, was hospitalized with severe burns in the same crash. He died last week.

CRA commissioner of Aeromodelers, Solo Flyers, and the Glider Club, Saftig recently was elected president of the CRA Council at Convair SD.

Saftig was nationally and internationally known in airplane modeling circles. He is survived by his wife, Beatrice.

In another light plane crash the next day, on Highway 80

Col. Stapp to Talk For Rocket Society

Col. John Paul Stapp, known as the "fastest man on earth" because of tests he made aboard a 632 mph rocket-propelled sled in 1954, will speak at North Texas Section meeting of the American Rocket Society April

"Space Medicine" will be Colonel Stapp's topic at the meeting scheduled for Western Hills Inn on Highway 183.

Colonel Stapp, the society's national president, is now chief of the aero medical lab, Wright Air Development Center at Wright-Patterson AFB.



Carlton J. Shepard of Convair SD Dept. 6 will represent California and the 251st AAA Group at dedication ceremonies of the National Guard Memorial Building May 3 in Washington, D. C.

A specialist second class in the California Army National Guard, Shepard will join representatives Three message centers in New of other state national guard York, San Diego, and Fort Worth units selected to take part in a parade of flags.

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At Fort Worth he was a senior design engineer working on the B-36, YB-60, and preliminary design of the B-58.

A native of New Jersey, he attended New York and Rutgers Universities and had worked for General Motors Corp., Fairchild Aircraft Corp., and North American Aviation before joining Con-

He is survived by his wife, Freeda; and two children, Justine



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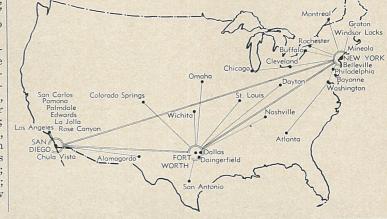
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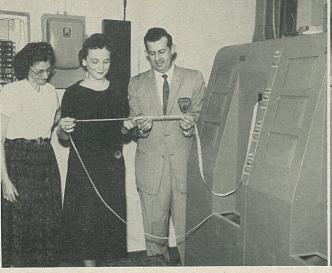
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Major General Dynamics centers linked by the system are Convair's San Diego and Astronautics Divisions and Stromberg-Carlson facilities in San Diego, Calif.; Convair Pomona; Convair Fort Worth and Daingerfield; Canadair Limited in Montreal, Each message passing through Canada; Electric Boat Division in









OPENING DAY-New communication network, linking General Dynamics Divisions and facilities with each other as well as key points across U.S., went into operation late last month. At far right, Walter P. Marshall, president of Western Union, gives pointers on equipment to Earl D. Johnson, General Dynamics executive

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Fort Worth and **Daingerfield**

EDITION

Fort Worth news office: ext. 2961; Daingerfield news office: ext. 424

SAN DIEGO, POMONA, ANTELOPE VALLEY, VANDENBERG AFB, CALIF.

AFMTC, CAPE CANAVERAL, FLA., FORT WORTH, TEX.

US AIR FORCE * " + 15

SEVEN-UP-Taxiing in at Convair Fort Worth is airplane No. 7 after completion of project "Seven-Up." Hustler had just made another simulated mission which included dropping disposable pod on target in New Mexico.



DATA FIRST-Pilot Ray Fitzgerald opens canopy of supersonic bomber here. Before he does anything else, he hands paperwork to waiting engineer. Purpose of project was to demonstrate range capabilities.

Dynamics' Backlog Set at \$2 Billion

General Dynamics Corporation | 9,909,822 common shares outlog of more than \$2 billion, Presiholders in the annual report issued last week.

Calling 1958 a period of outonly to the record year of 1957 when the figure was \$1,562,538,-

With an estimated \$2,095,000,-000 backlog at the end of 1958,

Earnings per share based on

closed 1958 with a business back- standing were equivalent to \$3.71. This compares to \$4.80 per comdent Frank Pace Jr. told share- mon share based on 9,224,419 common shares outstanding at the end of 1957. The increase in common shares outstanding for standing achievement for the company, Pace reported that result of conversion of the corposales were \$1,511,456,261, second ration's 3½ per cent convertible debentures into common stock.

Pace told shareholders that expansion and speed-up of corpowas in negotiation as of Dec. 31, costs for the 880/600 jet airliner program amounted to \$24,012,620

(Continued on Page 8)

Quality Work Advocated As Way to Reduce Costs

sense—"

That's the slogan going up continuing plantwide cost cutting effort on the B-58 and other programs.

sense to you as an employee, to Convair, to the Air Force and to the taxpayer as well," said J. Y. McClure, manager of quality

"This is because quality work means a minimum of wasted work and wasted materials—the biggest items of controllable cost at the division.

"Miss Thrifty" posters appearing throughout the plant make the point this way: "Quality (Continued on Page 8)

"Quality makes dollars and makes dollars and sense—and pays off for YOU in three ways:

-More job security (because throughout Convair Fort Worth it helps protect our AF contracts today in the newest phase of the and will help us obtain others in the future);

'-Less needless work (because a job done right the first time "Quality makes dollars and need not be done again); and-

"-More self-satisfaction (because it is only human to experience a feeling of self-satisfaction upon completing a good job)."

McClure emphasized that these quality factors apply in each job at Convair—whether the job is that of an hourly employee on the line or at a bench or machine, or whether it is that of a supervisor,

(Continued on Page 8)

Range Capabilities Of Hustler Tested **During 'Seven-Up'**

Tests were successfully completed in March on Convair Fort Worth's "Operation Seven-Up" as Test Pilot Ray Fitzgerald touched down with significant range capability data.

In order to accurately demonstrate B-58 capabilities, the plane made three different flights which included three pod drops.

The tests with pod drops were conducted over New Mexico at the Holloman AFB range. In addition to demonstration of range capabilities, pod drops were utilized for ballistic data.

Charles F. Crabtree of Dept. 6

was project team captain.
"I want to thank everyone connected with the project for their excellent support and teamwork," Crabtree said.

Now that this B-58 has completed the project, it will go into an Air Force category II program in the near future. In this project, the plane will be flown by an Air Force crew from Ed-wards AFB but will home base

at Convair Fort Worth.
Others involved in "Operation
Seven-Up" flights included George Davis, J. D. Taylor and B. D. Miller.

Convair Leads All in Safety

Convair's four major divisions rate research and development placed first, second, third and programs have entailed large fi- fourth in the 1958 National Safe-Pace said that an estimated addi- nancial outlays. He pointed out ty Contest for aircraft manufacirers conducted by the National Safety Council.

For the second time in three years Convair Pomona won first place in the contest. Convair San Diego, which was first last year, placed second; Astronautics Division, which was second last year, placed third; and Convair Fort Worth was fourth, after placing seventh last year.

The contest is judged on the basis of the accident frequency rate of each participating company. This rate indicates the number of accidents occurring per million manhours worked. Pomona's rate was .31. SD's was .45. Astro's was .60 and FW's was .69. Average among all competitors was 2.15.

Fort Worth Division has been notified that its 1958 performance has earned the division an Award of Honor, according to Fred Temple, chief safety engineer.

It is the first time since 1955 for FW to win the award.

FW's severity rate during the year was 23 days lost per million manhours worked.

Convair FW Wins Atom Plane Nod, Teamed With GE

It's official now that Convair Fort Worth is recognized as the nation's top team to build the nuclear powered aircraft of the future.

Convair FW was notified in Washington, D.C., that it had been picked as winner of a competition to design an atomic powered bomber.

Worth Division manager, expressed pleasure at the announce-Air Force. Newspapers learned of the decision through Horner and Congressman Jim Wright of Fort Worth.

A fleet of such bombers—which could fly anywhere in the world

Frank W. Davis, Convair Fort and return without refuelingcould maintain continuous airborne alert and be ready to strike ment. He was notified by Richard
Horner, assistant secretary of the the United States.

Said Andrew Kalitinsky, Convair Fort Worth nuclear program manager: "A fleet of nuclear powered aircraft such as (Continued on Page 8)



CONGRATULATIONS—Convair Fort Worth's T. F. Paniszczyn, left, is recognized as winner of the 1958 President's Award by Division Manager Frank W. Davis at March Management Club meeting. Paniszczyn, who saved company \$64,360 by his CIP, will actually receive award at next October's top management meeting.

1,700 Hear Frank Davis' First Talk Before Club

Convair Fort Worth's Division Manager Frank W. Davis painted a fairly rosy picture for the division's future at the March Convair Management Club meeting but stressed a need for continued plantwide cost reduction.

An estimated 1,700 heard Davis' initial address before

Worth can look forward to getting the supersonic B-58 fully operational and also for further expansion in the nuclear program.

"In order to get the B-58 fully operational, everyone in the plant must have a sense of 'urgency' toward what we're trying to do," he said. "We all must work together, because everyone's ideas count."

Davis symbolically described

Tickets on Sale For 'Creativity Program'

Ticket sales for Dr. G. Herbert True's one-man "creativity" program slated for April 25 at Ridglea Country Club got under way the early part of last week.

Dr. True, a 35-year-old selfdescribed huckster, will be sponsored by the Convair Fort Worth Management Club in a unique half-day personal development

(Continued on Page 8)

the club since his promotion to division manager. His topic was "Where we've been . . . where we are . . . and where we're going."

He said that Convair Fort

"In order to fill the box one."

"In order to fill the box, one must put in the cannon balls which represent the big ideas. Then there is still room for the marbles, or the little ideas," he further added.

In taking stock of where the company has been in the past year, Davis listed some of the accomplishments throughout the last 12 months. Some of these included successful mid-air refueling, the cold weather tests at Eglin and in Alaska, the upped production and most important of all, the downward trend in costs.

Other achievements during the year included new customers for the division's nuclear capabilities, work on the Atlas thrust section by which Convair Fort Worth people helped put the Atlas into orbit, the improved capabilities of employees who sharpened their skills in 2,190 training classes, improved reliability and improved schedule position.

"Eight and a half million dolsession. Members have been lars have been invested in the promised ways to put new pur-(Continued on Page 8)



FLOATING?—Camera angle gives impression that cocooned F-102 is floating like a blimp with nose attached to crane. Actually, it is swinging from sling. Planes were unloaded from aircraft carrier

F-102A SQUADRONS WIN SAFETY HONOR FOR FLYING RECORDS

Two F-102A squadrons have received recognition for safe flying records.

Geiger Field's 498th Fighter-Interceptor Squadron at Spokane, Wash., was nominated in February for the Air Defense Command flight safety certificate of meritorious achievement.

The F-102 equipped FIS completed an entire year of flying without suffering an accident. The unit flew 6,660 hours without accidents from January, 1958, through January, 1959, Lt. Col. F. D. Willis, squadron commander, announced.

Last accident charged to the 498th occurred early in January, 1958, while the squadron was deployed for missile firing practice at Tyndall AFB, Fla.

The 482nd FIS at Seymour Johnson AFB, Goldsboro, N. C., was presented a plaque for accident-free operations from October, 1957, to October, 1958. According to base officials, the 482nd, commanded by Lt. Col. James Thomas, has not had an accident since then.

Five Convair Persons Killed In Auto, Light Plane Accidents

Convair people and an AF officer assigned to Convair fatally in-

jured in light plane crashes and auto accidents.

Lorrain Clark of Convair SD Dept. 230 was fatally burned in a crash of a light plane near Camp Pendleton March 21. Mrs. Clark has been with Convair for

James Saftig

nine years. Pilot of the plane, James Saftig, SD Dept. 230 supervisor, was hospitalized with severe burns in the same crash. He died last week.

CRA commissioner of Aero modelers, Solo Flyers, and the Glider Club, Saftig recently was elected president of the CRA Council at Convair SD.

Saftig was nationally and internationally known in airplane modeling circles. He is survived by his wife, Beatrice.

In another light plane crash the next day, on Highway 80

Col. Stapp to Talk For Rocket Society

Col. John Paul Stapp, known as the "fastest man on earth" because of tests he made aboard a 632 mph rocket-propelled sled in 1954, will speak at North Texas Section meeting of the American Rocket Society April

"Space Medicine" will be Colonel Stapp's topic at the meeting scheduled for Western Hills Inn on Highway 183.

Colonel Stapp, the society's national president, is now chief of the aero medical lab, Wright Air Development Center at Wright-Patterson AFB.

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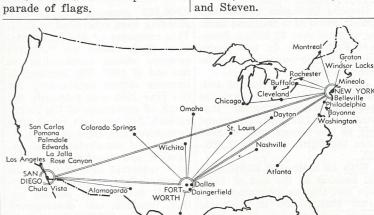
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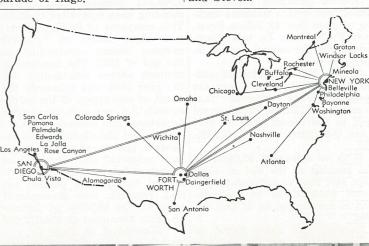
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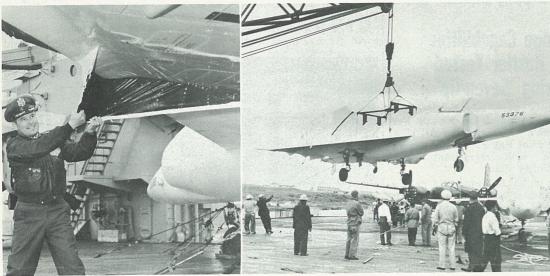
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ARRIVAL-At left, Col. Lester Johnson, 51st Fighter Interceptor Wing commander, tears plastic protection skin for better look at F-102 on arrival of new ships at Okinawa. Delta interceptors will join defense of Ryukyu Islands. At right, first plane leaves carrier deck.—USAF photos.

15,000-Mile, Two-Way, Wire System Connects All Dynamics Divisions

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RUGGED TERRIER—Marines found plenty of cold, plenty of snow for weathertesting Terrier missiles in High Sierras recently. Center above is missile assembly area. Crane is used to handle ton-and-a-half Terrier. Storage containers are in snow at right. In upper right photo, twin missile carrier delivers missile to loading

position on launcher. Lower left: Convair Pomona representatives A. M. Grandfield and H. C. Stowers discuss tests with Maj. G. S. Mansfield, USMC, at rear of mobile test station, built at Convair Pomona. Lower right, Capt. J. K. Smola, Capt. R. M. Burke, 1st Lt. P. C. Flattery, Warrant Officer R. W. Green, all USMC.



NAUTILUS-Lt. Col. John E. Hall, USAF (Ret.), who now works as an engineering security representative at Convair Fort Worth, shows picture he received from his son, Lt. Donald P. Hall, attached to submarine Nautilus.

Gunnery Officer Aboard Nautilus Is Son of Convair FW's John Hall

(Ret.) of Convair Fort Worth's Unit Citation. Dept. 6-6 brought a nautilus to work the other day. But it wasn't an eight-armed cephalopod related to the octopus.

Nautilus nuclear powered submarine in which he has a special interest because his son, Lt. Donald P. Hall, is gunnery officer aboard the ship.

Colonel Hall recalls that only last summer his son was "sittin' Hall retired from the Air Force other crew members made the service. He was adjutant genhistoric Arctic underwater cross- eral at Carswell Air Force Base ing. He was among the 116 men from 1946 until his retirement.

Lt. Col. John E. Hall, USAF | who received the Presidential

The colonel has a collection of souvenirs and clippings about the crossing, but the thing that he considers his most prized possession is an envelope mailed to him It was a picture of the USS from the world's first nuclear powered submersible.

Following in his father's footsteps with a military career, Lieutenant Hall is a 1950 graduate of the U.S. Naval Academy.

on top of the world" when he and in 1951 after 30 years' military



SCREENING-Left, J. B. Ellis, industrial relations engineering administrator, and B. R. Hooper, industrial relations analyst, screen applications of Convair Fort Worth sons who applied for two college scholarships to be awarded by company in May.

A reminder that some Convair employees may exclude a part of their 1958 Convair pay from their taxable income was issued this week by Wallace Jay, manager of general accounting.

"Convair is not attempting to advise employees how to prepare their U.S. income tax return,' Jay emphasized, "but we're merely calling attention to an item which may save employees some tax dollars."

Jay referred to line 6 on the first page of Form 1040. It states 'less excludable sick pay."

This means that hourly employees in some cases may enter on this line certain amounts of Convair sick leave payments made after a doctor's certificate has been submitted. (Pay in lieu of sick leave does not qualify.)
Salaried employees may in

some cases enter on this line certain amounts of their regular Convair salaries if they were paid while absent due to illness or injury, and if they meet other conditions set forth below.

Employees thus may qualify to subtract these amounts from the gross income figure shown on the W-2 form supplied them by Convair. This, in turn, results in a lower adjusted gross income figure—and a lower tax.

The most which can be excluded, however, is \$100 for each full week—or \$20 a day.

If the absence was due to ill-

ness, the first seven days of such pay cannot be excluded, however, unless the employee was a patient in a hospital at some time during the period.

If the absence was due to an injury, however, the employee may exclude pay from the first pay, even though he did not enter a hospital.

Official directions can be found on page 7 of the instruction booklet issued by the Internal Revenue Service.

Club Aids Delegation On Trip to Capitol

Convair Fort Worth's Manage ment Club helped make it possible for some 70 Fort Worth high school boys to journey to the state capitol in Austin recently to tell the Senate jurisprudence committee what they've done to halt hoodlumism in the East Side of the city.

The young Fort Worth delegation was at the capitol to back three bills they think would help in law enforcement.

Sick Pay Can Be Fix on B-58 Steel Panels Tax Deductible Achieved With New Tool Achieved With New Tool

B-58 stainless steel panels virtually as good as new are now possible with a new tool and new processes developed at Convair Fort Worth.

What's more, the new process is saving the taxpayer, the Air Force and Convair thousands of dollars—and will save many more thousands as more and more B-58s go into operation.

J. W. McCown, structures engineer, estimates that the new tool saved some \$35,000 in the first four months after it went into use at Convair Fort Worth.

It is relatively small so that it has a potential for use in the Air Force as large numbers of B-58s go into the field.

Stainless steel panels consist of a "sandwich" of honeycomb core covered on each side by very thin stainless steel skins.

"The panels give us a highly efficient structure that holds up under the high temperatures produced by the plane's power

Convair FW Club Biggest in U.S.

Convair Fort Worth Management Club is now the largest in the nation, S. A. Seibert told board of control members recently.

Seibert, zone manager for National Management Association, commended the board and the club's officers for their showing in a campaign that raised membership to 3,038.

Seibert, who recently moved NMA zone headquarters from St. Louis to Fort Worth, said only time will tell whether another club tops the Fort Worth record. San Diego management club in February reported a membership of 2,415.

At the same board meeting, Seibert also presented an award from NMA to R. P. Curry for outstanding service as Convair FW Management Club president

> Is It News? Call Convairiety

Fixes which make damaged | plants and air friction at doublesonic speeds," said McCown.

The skins, however, are so thin that they are easily damaged. An inadvertent poke with a screwdriver can damage them be-

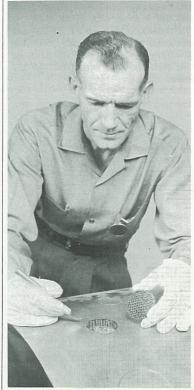
Before the new fix was developed, a panel damaged in such fashion was a total loss.

Three engineering groups—structures development, control surfaces, and engineering test lab-joined with manufacturing research engineers to come up with an answer.

It proved to be a brazing process which can be performed with the aid of a tool on which Convair is seeking a patent.

The damaged skin and honeycomb is carefully cut away from the panel. A new piece of honeycomb is spliced into the core, after which a new piece of stainless steel skin large enough to cover the opening is put into

The new tool is then brought into play. It fits over the spot getting the fix to apply heat which brazes the new stainless steel to the panel.



FIX-J. L. Jackson in Convair Fort Worth's pilot shop inserts piece of stainless steel honeycomb to make fix on B-58 stainless steel panel by new process.



CONVAIR QUEEN - Beautiful Susan Beatty, 20, secretary in Dept. 15 at Convair SD, was proclaimed "Queen of the 1959 Yellowtail Fishing Derby" in San Diego which is under sponsorship of the local Junior Chamber of Commerce.

Convair Joins Pilot Society

Convair, a division of General Dynamics Corporation, recently became a corporate member of the Society of Experimental Test

The society was founded in September of 1955 to unite the efforts of experimental test pilots toward promoting aeronautical design, flying safety, and the art of test flying through inter-change of information, without affecting the competitive struc-ture of the industry.

Convair engineering test pilots have from the beginning played an important role in the organization. R. L. Johnson (Edwards), former vice president of SETP, and D. P. Germeraad (San Diego) were elevated to the grade of associate fellow in 1958, and John Fitzpatrick (Holloman), former program chairman, was elevated to that grade last month.

C. E. "Chuck" Meyers (Edwards) served as secretary last year and was elected vice president this year. W. H. Harse and J. K. Stuart (both Edwards) and J. M. Elliot (San Diego) have been members since 1956. Harse is currently serving as chairman of the escape and equipment com-

Present activities of SETP are centered about the air collision problem and the contribution of the professional test pilot to the space age.



Tracy Brooks has been appointed to the new post of college relations administrator for Convair, R. H. Biron, vice president-administration, announced.

Brooks, formerly executive development administrator for Convair SD, will coordinate the recruiting activities of all divisions of Convair.

A native of Chicago, Ill., Brooks came to Convair SD in February of 1945 as a job analyst in industrial relations. In 1946 he transferred to engineering as personnel engineer and was appointed engineering personnel administrator in 1948. A year ago he was named administrator of executive development.

Brooks holds a B.S. degree in business administration from the University of Michigan. Before joining Convair he had been a management consultant for Booz, Allen and Hamilton in Chicago and previous to that personnel manager at U. S. Cartridge Co. of St. Louis, Mo., and Carnegie-Illinois Steel Co., Chicago.

CONVAIR DAUGHTER TV STAR AT AGE 4

A veteran trooper at 4 years old, little Bobbie Lynn Cardenez, daughter of Clarita Cardenez of Convair-SD Dept. 603, is now appearing weekly on television.

Bobbie, who has been doing her special tap dance and acrobatic routines before the public since she was 21/2, is being featured on the Vincent Marasco TV Showhouse over Channel 6 Friday evenings and Saturday mornings.

Television is nothing new to the little performer who has already danced on Panorama Pacific, Queen for a Day, and the Harold Keen show.

A specialty is the cane dance, which is rarely attempted by children under 10. According to her mother, Bobbie would rather practice her steps than play. "In fact, to Bobbie, her dancing IS play!"



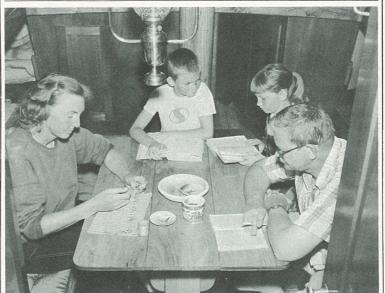
TROUPER-Little Bobbie Lynn Cardenez receives plaudits from her mother, Clarita Cardenez of on which Bobbie appears weekly



"Let's just stand here and rest a minute . . . my feet are KILLIN' me . . . "



BE-WITCHING-Fran and Vic Westfall (SD Dept. 129) proudly display new "home," 35-ft. Dan-ish-built cutter, "Red Witch."



COZY—The Westfalls (left to right)—Fran, Clyde, Vicki, and Vic—gather in main cabin of "Red Witch" for cozy evening of homework, reading, sewing.

Trick of 'Toe-Sliding' Trombone Takes Astro Man on Europe Tours

each point.

lasted six months.

Brassy renditions of the Formosa, Okinawa, Japan, Ko-Twelfth Street Rag" on a slide rea, Hawaii, Panama and the trombone are fairly commonplace in jazz circles, but a Convair Astronautics man plays it with one

That's right, he pumps the slide with one end firmly clinched between his first two toes.

Clyde Helmer, a member of Astro's communication department, has been utilizing this trick for almost a decade. It has earned him two world tours, a nationwide television appearance, plus the opportunity of performing before some 50,000 persons around the globe.

Helmer learned to toot his trombone at a Biwabek, Minn. high school. To break the monotony of rehearsals he used to slip off one shoe-and use his foot to work the slide. That started it.

Moving to California, Helmer SD Plant 2 (Dept. 603), and Byrd enrolled at UCLA and forgot his old trick. He did gain fame as a crombonist with Red Nicholas and Pete Daly and took his own group, the Rampart Street Six, to a Dixieland Jubilee in Los Angeles, considered the "world's series of jazz."

Armed with a music degree, Helmer found his career interrupted by a tour of service duty. He reported to Fort Ord and promptly landed a place in the base band.

"Musicians were plentiful and I knew sooner or later I would have to take up 'KP' duty, a disheartening chore to me," Helmer said. "So I revived my old trick and started to appear as a soloist and novelty act at base shows.'

His fame spread and Helmer jumped from one service show to another. He transferred to Fort Lee, Va., and promptly won an Army talent show. He later appeared with Arlene Francis on her nationwide "Talent Patrol" TV program.

Next came an invitation to tour Far East Army bases and he tooted and pumped across Alaska,

No Yard to Mow

Westfall Family Settles Down In Danish-Built Home Afloat

settled in its new home.

In this case, the Westfall home is—as it has been for over five years-aboard a boat tied up at the Silver Gate Yacht Club on Shelter Island at San Diego.

But, as of a couple of weeks ago, Mom, Pop, Vicki, 11, Clyde, 9, and Chela, the family cat, moved into the three cabins of their new 35-ft. Danish-built cutter, called the only boat of its type in existence.

Westfall climaxed several years' planning when he took delivery of the "Red Witch" at Newport Beach last month. The boat, designed by the Copenhagen marine architect, Knud Hansen, from 150-year-old plans of an

Caribbean area much to the de-

light of the Armed Forces at

Helmer came up for discharge,

then turned around and signed

as a civilian performer with the

USO for a tour of Europe. This

Friends are still amazed at

Helmer's contortions in playing

'footsy" with his trombone. Six

feet tall and 230 pounds, he has to "reach over" a 42-inch waist-

Helmer is still a feature at-

traction in jazz circles at a Del

Mar club called the Powerhouse.

Few weekends go by that he is

"It's old stuff now, but I still

wear out a few pairs of socks each month," Helmer said.

not asked to remove a shoe.

The family of Vic B. Westfall | inter-island trading vessel, was (Convair SD-Dept. 129-0) is built by a Danish boat-building family of three generations.

The sail boat had been in the building since August of 1957. "Unique features of the 'Red Witch,' as we have named her, attracted so much attention that she was kept in Denmark several months after she was finished so that people from all over Europe could see what she looked like," Westfall said.

The boat carries the original cutter rig with three head sailsa square sail, topsail, and gaff head main sail. It is the first boat, less than a 45-footer, to be built with a "great cabin aft" (cabin in the stern).

It sleeps six, two bunks in each of the three cabins. Each cabin has its own hatch and plenty of clearance-6-ft. head room. The boat is equipped with a Mercedes-Benz 37 hp engine for auxiliary power.

"It is strictly a cruising vestle." explained Westfall. "There sel," explained Westfall. is no electricity aboard. Kerosene is used entirely for all purposes -cooking, heating, and lighting."

Mrs. Westfall said that she enjoys the simplicity of keeping house in a boat. "It only takes half an hour to have everything spotless, and when the deck is hosed down, the yardwork is done, too!" Having two industrious brass polishers in the family makes the work easier yet as both Vicki and Clyde like to keep the knobs and fixtures shining.

Ordered through Scandia Imports of Newport Beach at a cost of \$24,500, the cutter arrived in Wilmington aboard the SS Lionsgate after a month's voyage from Copenhagen.

For the present the Westfalls will be sailing their "Red Witch" to nearby places on weekends, but eventually they hope to strike out on a world cruise.

Jet, Rocket Experts Attend Institute

About 100 jet and rocket combustion experts attended the March 23-24 session of the Western States Section of the Combustion Institute co-sponsored at San Diego by SD State College and Convair scientific research department.

Main banquet speaker was Dr. Edward P. Ney, professor of physics of the U. of Minnesota, who talked on "Van Allen Radiation Belts-Artificial and Natu-

Among subjects covered by the 15 technical papers read during the two-day meeting were problems of detonations in solid propellants and experimental research in high-energy fuels.



TOE TALENTED—Clyde Helmer of Astro demonstrates technique that won him two world tours, nationwide TV appearance and many fans while an Army enlisted man. Six-foot, 230-pound Helmer still performs feat before local audiences. His favorite is "Twelfth Street Rag."

Stromberg-Carlson **Stresses SCATE Sale**

ROCHESTER - A new sales force with exclusive responsibility for the sale of SCATE—Self-Checking Automatic Test Equipment — in Stromberg-Carlson's Electronics Division has been announced.

SCATE is a pre-programmed, automatic computer-type test system which can reduce the time required to check modern weapon systems from hours to minutes.

SCATE can be adapted to test any missile, aircraft, or ground electronic system.

NEWS FROM OTHER DYNAMICS DIVISIONS

General Dynamics Corporation, created in April, 1952, as successor to Electric Boat Company, is composed of six divisions and Canadian subsidiary, Canadair Ltd. of Montreal, airframe builders. The divisions are:

Convair, head offices at San Diego, Calif., aircraft, missiles and space systems.

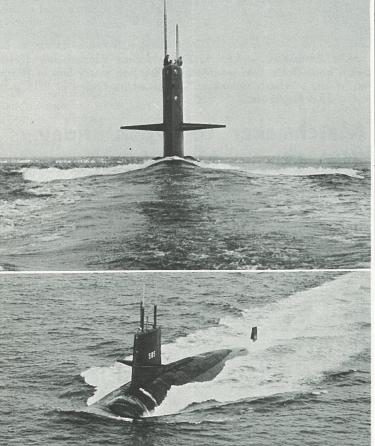
Electric Boat of Groton, Conn., submarines.

Stromberg-Carlson, of Rochester, N.Y., telecommunications, electronic equipment.

Liquid Carbonic of Chicago, Ill., carbon dioxide producer, industrial and medical gases.

General Atomic of San Diego, Calif., nuclear research, development, production.

Electro Dynamic of Bayonne, N.J., electric motors, generators.



FLEET'S FLEETEST-World's fastest nuclear powered submarine Skipjack, built by Electric Boat Division, shown in dramatic photos taken during builder's trials last month. Note blimp shape and diving planes on "sail" (formerly known as conning tower).

Guards Need Photo Memories To Keep up on Different Badges

Security guards at Convair SD aren't memory experts but sometimes it might help.

Seventeen new badges and three new identification cards issued last month to various customer representatives and other outside groups skyrocketed the total guards must remember.

For security's sake, guards must be familiar with roughly 600 signatures (those authorized to sign passes), 40 badges, 19 different identification cards and over 700 cars with in-plant clear-

And many of the "old-timers" know the faces that go with the badges, cards, signatures and

'Space Exploration' **Bossart Talk Topic**

"Space Exploration Problems" was the topic of K. J. Bossart, assistant to Convair's vice president-engineering, at the March 26 meeting of the American Society for Metals at the Lafayette Hotel, San Diego.

Bossart's lecture was an introduction to this month's ASM educational program on space metals. Durst said.

Sooner or later, because guards switch duty locations from day to day and change shifts every four weeks they become personally acquainted with the varying aspects of Convair SD's security set-up.

In addition, to enable guards to keep pace with changes, periodic classes are conducted by commanding officers.

"Headquarters" at both Plants 1 and 2 are the focal points of

Located at each are master keys for Convair offices, buildings, files, etc. Close tabs are kept with the plant fire department and the San Diego Civil Defense set-up and in case of equipped to take over the plant's project. loud-speaker and radio system.

guard chief, members of the security force come from all walks of life but that the majority have had some prior association with law enforcement in either the military or as police officers.

"Because they are constantly dealing with people, their job is one of public relations, also,"

-C. M. Durst, SD guard chief (right), points out COUNT 'EMadditions on badge board to D. D. Hendry. Additional badges avid hobbyist (building detailed and cards issued last month swelled total guards must remember. replicas of everything).

Canadair 540 **Starts World Sales Tours**

world sales tours of the Canadair-Convair 540 jet-prop transport began last month, when a 540 left Montreal for a 17-000-mile tour of the United States and Western Canada.

The 540, powered by two Napier jet-prop engines and developed from the Convair 240, 340, 440 series, will be demonstrated to airline operators, owners of executive aircraft and military authorities. A second 540 leaves late in April for a 25,000-mile tour of South America and a third is to leave in May for a

tour of Europe.

The first 540 will visit 19
North American cities in the next two months and cover 12,600 miles in point-to-point flights. First stop is Utica, then on to New York, Washington, Atlanta, Houston, Dallas, Fort Worth, Las Vegas, St. Louis, Chicago, De-troit, Minneapolis, Winnipeg, Ed-monton, Calgary, Vancouver, Seattle, San Francisco, and Los Angeles.

Electric Boat Gets Contract to Build Sub Missile Device

GROTON - Submarine sailors soon will operate nuclear subs and fire ballistic missiles from the ocean depths-without ever leaving port.

An electronic simulator, called the "submarine FBM (fleet ballistic missile) training facility," will make the land-based training of missile sub crewmen possible, according to an announcement made by the Navy.

Electric Boat has been selected to undertake the design and construction of the unique simulator's diving, steering and navigational systems under a $$1\frac{1}{2}$ million contract with the U.S. Naval Training Device Center, Port Washington, N.Y. The missile fire-control system has been assigned to Curtiss Wright, with General Dynamics responsible for emergency both locations are technical integration of the entire

In Retiremen

A partnership of over 35 years came to a close last month.

Leo Bourdon, well-known and well-loved figure at Convair San Diego, has retired, ending an active association of man and company, dating back to pre-Convair days in Greenwich, R. I., and Buffalo, N. Y.

In point of service, Bourdon was Convair's most senior citi-

He came to San Diego with Consolidated in 1935 and served in various capacities as superintendent and foreman.

Looking back, Bourdon recalls his association with Convair as a happy one. "It gives me satisfaction to think that I grew up with Convair, with mutual benefit to both of us," he said.

Bourdon, now 72, has not made elaborate plans for his retirement, but has always been an



ORVILLE WRIGHT-Just after completing a flight in De Havilland 4 is Orville Wright, left, and Howard Rinehary, chief pilot of Dayton-Wright Airplane Co.

Gallaudet Co. Dissolved After Study by Fleet

(Consolidated Aircraft, from which Convair stemmed, was created in 1923 from the assets of Gallaudet Aircraft plus designs and engineering talent from Dayton-Wright Co. Following is another installment in a continuing history of Convair which relates the end of Gallaudet and describes some of the early history of Dayton-

over direction of Gallaudet Aircraft Corp. as general manager in the fall of 1922 (at a time when the company had lost nearly \$3 million since World War I) the directors asked Fleet to study the operation from the inside for three months, then report back.

He did—with the conclusion that Gallaudet "has nothing worthy of perpetuity or continuity, and would not bring more than \$100,000 if you could find a buy-er." In addition, he reported that he wanted to form a company of his own, with his own resources, and offered the directors this proposition:

"I will finish off your contracts. Since labor will lag at cutting off its meal check, I will use the men on my own work as they are available, and pro-rate the labor costs. I will charge my salary fifty-fifty to you and me. I will use materials from your stock room on my own work, at cost plus 10 per cent. For rent, I will pay you 10 per cent of my own profits, if any. Thus, I will kill off your company to your best advantage while establishing my own.

The directors were deeply distressed, but decided to accept Fleet's offer. The major thereupon set about forming Consolidated, which he organized as a Delaware corporation with an authorized capitalization of \$60,-000 in shares of \$100 par value. Actually, only \$25,000 was issued; Fleet subscribed \$15,000 and his sister, Lillian Fleet Bishop, \$10,-

When Reuben H. Fleet took | (Dayton-Wright Co.) at Dayton.

Dayton-Wright had a history of its own.

In 1915 Orville Wright sold his Dayton factory and patents to the Simplex Automobile Co. syndicate and the next year entered into a period of informal collaboration with Charles F. Kettering, inventor of the auto selfstarter.

Early in 1917 Kettering organized the Dayton Airplane Co. with three associates-E. A. Deeds (later the head of National Cash Register); Col. Harold E. Talbott, a paper mill and power plant industrialist; and the latter's son and business associate, Harold E. Talbott Jr. (later Secretary of the Air Force). Wright was retained as consultant and the company put up a shop and hangars at South Field, near Dayton.

With additional capital supplied by a Detroit group, the enterprise was reincorporated as the Dayton-Wright Airplane Co. on April 9, three days after the U. S. entered the war.

Dr. J. K. Leverett Given **President Citation**

Dr. J. K. Leverett of Convair Fort Worth this month was awarded a Presidential Unit Citation and Presidential Unit Citation Ribbon Bar transmitted to him through the commandant of the Eighth Naval District at New Orleans.

The citation came as a result of Dr. Leverett's service with the First Marine Aircraft Wing dur-000. For aircraft designs and an ing the Korean War. Dr. Leverengineer, he turned to General ett is Convair Fort Worth's chief Motors, which had decided to physician and head of personnel close out its aircraft subsidiary department's medical section.



LEISURE TIME-Leo Bourdon, Convair's most senior citizen, recently retired, takes pride in landscaping, and flowers at his San Diego home.



SKI LIFT—Willie and Nadine Park, just back from a ski trip to Aspen, Colo., have become known as "globe trotters" at Convair Fort Worth. They've traveled Europe, Mexico and Hawaii, among

Convair FW's Globe Trotters Ski in From Aspen Vacation

ploring the British Isles in a sports car have tagged Willie and Nadine Park as a pair of Convair Fort Worth "globe trot- tries.

Park, a senior nuclear engineer, and his wife just returned from a ski trip to Aspen, Colo. And now they're already planning another next year in Can-

Shortly after graduation from

Skiing in the Rockies, travel- the University of Wichita in ing Europe on bicycles and ex- 1950, Park and his roommate pedaled bicycles through most of England, France, Germany, Italy and other European coun-

Mrs. Park recently returned from a trip abroad with her 75-year-old mother. They bought a foreign sports car in Southhampton and racked over the British Isles with a fine toothed comb, taking time out for the World's Fair in Brussels.

Canada's next.

Black Elected Bridge Prexy

Gene Black heads a slate of newly elected officers for the CRA bridge activity, G. P. Anderson, CRA bridge commissioner, announced this week.

Henry Weltman was elected vice president for night activities, while Mrs. C. J. Hall was named vice president of daytime activities.

Secretary is Mrs. C. L. Seacord. Program committee chairmen will be Mrs. Gene Black (day) and H. H. Pinkerton and I. B. Hale for night play.

The prize committee will be chairmanned by the H. H. Pinkertons, and the new historian is Mrs. J. W. Gregg.

CRA's annual bridge tournament was tagged a success. Grand overall winners were Mrs. C. L. Seacord and Mrs. E. B. Maske. Overall team of four winners were the A. J. Bryans Jr., Mrs. Charles M. Moore and Dick McNeese.

Al Kramer and Don Reid took the men's pairs, and Mrs. Herman Ankenbruck and Mrs. J. R. McLamore took women's pairs.

In mixed pairs, Mrs. A. Judson Bryan and Henry Baer won. Shirlee Harris and Edward L. Rosen took top honors in the open pair two session event.

Lloyd Teneyck and James R. Lyddy were first in the conso-

Colonel Hall Awards Seven Service Pins

Col. Leonard R. Hall, Convair Fort Worth Air Force plant representative, awarded seven service pins which represented a century of civil service during a brief ceremony in his office re-

A 30 year pin was awarded submarine in her native Corsito James E. Mengers, a 20 year pin was awarded to Ernest B. Thornton and 10 year pins went to Lorraine P. Gumm, Flora N. Eastwood, Bill A. Findley, Theo K. Pogue and James E. Willett.

All were present for the presentation except Thornton and tress in the junior college state Mrs. Gumm.

With Players Unfolding Farce Curtain rises at 8:15 p.m. Friday on Thornton Wilder's "The Matchmaker" as CRA Wing and University.

Masque players unfold the farce at their 2966 Park Hill Drive Miss Wilson was a vocalist at KOTA-TV in Rapid City, S. D., and at one time had her own The play, under direction of E. radio show over KAND in Cor-Stanton Brown and Chesley T. York, concerns a determined matchmaker, Dollie Levi (Margaret J. "Maggie" Wilson), who's out to land a match for herself during the frolicking 80's in New York City.

"The Matchmaker" runs April 3, 4, 9, 10 and 11, and tickets are available by calling the box office at WA 4-8975 or CI 6-1882 or at the CRA office.

Lockhart Takes 1959 Shutterbug Crown

Winner of the CRA camera club 1959 "photographer of the year" title goes to George Lockhart, Commissioner Miles Rogers announced this week.

Lockhart was chosen on a point system of entries in color and black and white contests and also for the number of place wins since last April. His prize was \$20.

Eddith Eggleston got both "the print of the year" and "slide of the year" titles and stashed away \$20 for each.

Lockhart was elected to head the shutterbugs as president at their recent election meeting.

The club is planning a field trip through Mrs. Baird's Bakery on April 8.



Fort Worth

The following service emblems were due during the period April 1 through April 15. Twenty-five year: Dept. 6, M. E. Al-

drich.
Twenty-year: Dept. 6, C. R. Curnutt;
Dept. 36, O. J. Olsen.
Fifteen-year: Dept. 6, W. C. Rice; Dept.
9, A. V. Cato; Dept. 22, M. C. Snider,
J. L. Tillery; Dept. 24, C. P. Goodman.
Dept. 25, W. E. Johnson, L. T. Lee;

9, A. V. Cato; Dept. 22, M. C. Snider, J. L. Tillery; Dept. 24, C. P. Goodman. Dept. 25, W. E. Johnson, L. T. Lee; Dept. 27, R. J. Roberts, D. B. Tallon; Dept. 31, W. Inman; Dept. 46, C. Albertson, R. W. Brooks, R. Lee, T. A. Sloan, J. D. Stutt.

Dept. 48, C. N. Gruben; Dept. 54, C. R. McDaniel; Dept. 55, O. E. McEaniel; Dept. 55, O. E. McEaniel; Dept. 55, O. E. McEaniel; Dept. 64, C. S. Copeland, L. F. Cowart, J. A. Ewing; Dept. 65, J. L. Bradley, L. W. Castleman, H. P. Christian, W. S. Turner. Dept. 74, W. A. Long: Dept. 82, W. C.

Bradley, L. W. Castleman, H. P. Christian, W. S. Turner.
Dept. 74, W. A. Long; Dept. 82, W. C. Cowan, R. W. Jones, A. C. Stults.
Ten-year: Dept. L. Arnold, K. Hargrove; Dept. 6, J. B. Hansard, H. L. Henson, B. E. Moore, H. L. Roland, V. L. Salzman.
Dept. 7, F. A. Miles Jr.; Dept. 8, C. D. Stell; Dept. 11, E. H. Ocheltree; Dept. 19, L. D. Lipscomb; Dept. 20, J. W. Brock, L. E. Morgan.
Dept. 21, D. D. Browning; Dept. 22, S. M. Burton; Dept. 24, R. W. Lynch, H. G. McFall Jr.; Dept. 25, R. L. Davis Jr., J. Elwood, H. O. Holaman, F. H. Kilgore, C. C. Lancaster, J. T. Rench, E. L. Robertson, W. O. Wilkerson.
Dept. 27, B. D. Faries, C. A. Markum, G. T. Teague; Dept. 32, D. B. Shepard; Dept. 33, E. Bernard; Dept. 35, M. R. Martin.
Dept. 75, J. Payne; Dept. 81, W. E. Gilliland, O. G. Peavler; Dept. 82, C. F. Drummond; Dept. 89, G. L. Cox, J. F. Francisco, E. E. Ragsdale.

MATCHMAKER — Left to right, Horace Vandergelder (Erwin Swint) begs Dollie Levi (Margaret Wilson) to marry him in Thornton Wilder's "The Matchmaker," which opens Friday at 8:15 p.m. at the CRA Playhouse.

'Matchmaker' to Open Friday

Log Book Entries

Promotions

Promotions

Promotions to and within supervision, professional and administrative effective March 16:

Dept. 6: to design engineer sr., L. A. Douglas, R. J. Kiolbasa, E. F. Thomas Jr.; to engineering writer, W. O. Denman, R. L. Smith; to flight test engineer, P. R. Haught; to flight test engineer sr., R. Kendall J. B. Murphrey.

Dept. 7: to development liaison man, J. M: Hart; Dept. 12: to flight captain, E. E. Guthrie Jr.; Dept. 25: to sr. plant design engineer, J. E. Dillman.

Dept. 30: to assistant foreman, R. E. Sassman; Dept. 32: to assistant foreman, W. L. Frye Jr., B. Winfield.

Dept. 85: to customer service engineer, R. D. Caddell, G. A. Williams Jr.

Awards

The following received Employee Suggestion awards totaling \$1,317.40 for the period ending 12 March:

E. E. Miller; Dept. 3, C. A. Hackney, B. J. Keator; Dept. 4, J. W. Arendall, D. C. Clark, P. C. Crysel, W. E. Meacham, M. K. Powers, F. V. Solomon.
Dept. 17, R. Brown; Dept. 22, W. H. Hall, C. R. McDaniel, W. B. Westbrook; Dept. 24, R. J. Heist, W. G. Holbrook. Dept. 25, V. E. Cochran, R. W. Schwartz; Dept. 27, T. E. Cox, H. L. Law, G. D. Ray, J. D. Tomerlin; Dept. 28, R. E. Holden, T. P. Tyler.
Dept. 29, L. B. Johnson; Dept. 33, R. H. Atkins, R. D. Stinson; Dept. 35, T. P. Collins, B. L. Jackson, M. C. Roop Jr. Dept. 46, B. G. Docktor; Dept. 54, A. J. Larson Jr.; Dept. 56, J. B. Greenhaw; Dept. 64, A. R. Crummel, A. A. Grimes; Dept. 63, W. H. Everidge; Dept. 82, A. E. Farris.

Retirements

CONWAY—J. G., Dept. 64. Oriignal hire date April 8, 1943 (FW), retirement effective April 10. General Delivery Rainbow, Texas.

DAVIS—Earl, Dept. 25. Original hire date June 25, 1942 (FW), retirement effective March 27. 1004 E. Leuda, Fort Worth, Texas.

DENNIC E P. S.

DENNIS—E. B., Dept. 81. Original hire date July 20, 1936 (SD), retirement effective March 13. 7905 Harwell, Fort Worth 8, Texas.

KING—W. H., Dept. 24. Original hire date May 4, 1943 (FW), retirement effective March 20. 2125 Weatherbee, Fort

McCULLARS—D. M., Dept. 99. Original hire date April 25, 1951 (FW), retirement effective February 26, 2912 S. Caddo Trail, Fort Worth, Texas.

McDANIEL—W., Dept. 31. Original hire date October 1, 1946 (FW), retire-ment effective March 19. 3613 N. Little-john, Fort Worth, Texas.

Births

Fort Worth

BEISSNER—Mark Steven, boy, 7 lbs. 5½ ozs., born March 2 to Mr. and Mrs. F. L. Beissner, Dept. 6-1.

GOSS—Gwendolyn Yvonne, girl, 8 lbs., born March 14 to Mr. and Mrs. M. L. Goss, Dept. 75

JONES—Charles Arthur, boy, 8 lbs. 3 ozs., born March 16 to Mr. and Mrs. R. Kent Jones, Dept. 6-5.

Daingerfield

GREGORY—Susan Elise, girl, 7 lbs., 3 ozs., born March 7 to Mr. and Mrs. P. L. Gregory, Dept. 2.

SAMMONS—Donna Elizabeth, 7 lbs. 14 ozs., born March 13, to Mr. and Mrs. W. H. Sammons, Dept. 2.

Deaths

DOYLE—M. L., Dept. 63, died March 10. Survivors include his wife, two daughters, one son, his mother, one sister and two brothers.

HENNESSEY—J. R., Dept. 27, died March 23. Survivors include his wife, two sons, one daughter, his mother, one sister and two brothers.

INMAN—W. A., Dept. 31, died March 16. Survivors include his wife, two daughters and one son.

Cards of Thanks

I would like to thank all the Convair employees and their families who were so kind to Armi during her illness and for their sympathy and understanding to me at the time of her death.

T. J. Sullivan, Dept. 11-0

We wish to thank our many friends at Convair for their expressions of sympathy following the death of our son Stan Alan. L. B. Smith family, Dept. 6-7

This is to express my deepest gratitude for both the moral and financial support rendered me during my recent bereavement by Convair employees, our Con-Trib-Club, employees in Dept. 15 and all my other friends. It is sincerely appreciated.

K. Simmons, Dept. 15

We wish to express our sincere thanks to our many friends for all the flowers and other expressions to us following the recent loss of our brother.

R. D. Cornelsen, Dept. 74 Oliver Cornelsen, Dept. 25-3

I would like to express my sincere thanks to Dept. 64 (second shift) for the flowers and other expressions to me fol-lowing the recent loss of my mother. L. L. Morgan, Dept. 64

Lost and Found

LOST—ladies green billfold. Contact Doris Strange, Dept. 24-7, ext. 3809.

Hitchhikers

RIDE WANTED—from 2021 Hemphill, 7-3:45 shift, call C. W. Burns, ext. 3909.
RIDE WANTED — from 5008 Gilbert, 8-4:45 shift, call Jeane Hargrove, ext. 2951.

Convairiety

First Place Winner International Council of Industrial Editors

International Council of Industrial Editors

Founded Sept. 1, 1948. Published in six editions (Fort Worth-Daingerfield, San Diego, Pomona, Astronautics, Mail Edition and Antelope Valley-Holloman) by Convair Industrial Relations, General Offices, San Diego, Calif., Logan Jenkins, editor. Approximate current total circulation, over 65,000. News items and letters to the editor are solicited, but no advertising can be accepted.

SD Editorial Offices, Building 32, Plant 1, ext. 1071. Staff: Grayce Fath, Helen Pemberton, Fred Bettinger.

FW Editorial Offices, Col. 73-C, Ext. 2961. Mailing Address: Convairiety, Convair, Fort Worth, Texas. Telephone PE 8-7311. Staff: Bob Vollmer, Fort Worth editor; Pat Baker, Mary Beck.

Astronautics Editorial Offices, Bldg. 2, new plant, ext. 1154. Staff: Bryan Weickersheimmer, Astronautics editor.

Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8, Staff: James Combs Jr., Pomona editor; Dorothy Keller.

Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.



Bill Watson, son of W. H. Wat- | Venice, Naples and Sorrento. son of Dept. 6-4, left last Thurssalesmanship in a contest with sity youth counselors. about 700 others.

Young Watson, 17, has been delivering papers for the Star-Telegram for about three years. The contest he had entered was sponsored by the newspaper and Parade magazine, the Sunday supplement.

The Paschal senior was flown to New York City last Thursday Italy includes Rome, Florence, nell.

Escorted on the tour by four day by airline for sunny Italy as | Parade executives, the group was a reward for his newspaper also accompanied by six univer-

Bowlers Will Enter ABC in St. Louis

Four five man Convair Fort Worth bowling teams will enter the American Bowling Congress in St. Louis April 22-23.

The teams are captained by John Harpstrite, Harvey Starkto begin the first leg of his "expense paid" tour. The tour of ey, Mike Nellis and Russ Pur-



Playhouse.

dramatics.

Miss Wilson makes her first appearance with Wing and

Masque in this production but is

by no means new to the theatre.

She got her start in show busi-

ness as a singer selling war

bonds from a one-man Japanese

cana, Texas. She continued

singing and sang her way through Navarro Junior College,

where she became interested in

Chosen by the late Margo

Jones as the best character ac-

play festival in "The Old Lady

WINS ITALIAN TOUR-Here Bill Watson, son of W. H. Watson of Dept. 6-4, is caught before boarding plane bound for Italy last Thursday. Watson, a Star-Telegram paper carrier, won the

Table Tennis Goes National

Four CRA table tennis players gave good accounts of themselves at the recent United States National Table Tennis Tournament at Inglewood, Calif.

Young Carolyn Norman advanced to the semi-finals of the women's singles but was defeated by Sharon Acton of California, the number two ranking women's table tennis star in the nation by a score of 3 to 1.

Miss Norman defeated Barbara Chaimson of Washington in the quarter finals 16-21, 21-17, 21-19, 19-21 and 21-19. Miss Chaimson will compete in the World's Tourney in Dortmund, Germany, where she'll represent the states.

Lydia Norman, Miss Norman's mother, advanced to the finals of the women's consolation losing to Lois Hutt of Denver. She won the only trophy for Texas.

CRA's Louie Lancer made it through eight finals before losing to Robert Van De Walle of Chicago 21-18, 21-13 and 21-16. Van De Walle is another U. S. team member.

John Rangel reached the semifinals of the men's consolation before he lost.

Miss Norman and Lancer teamed up to reach the quarter finals in mixed doubles but bowed to Bobby Fields and Miss Acton of California.

The mother and daughter Norman combination reached the semi-finals of the women's doubles before it lost to Susie Hoshi and Tiny Eller of the gold coast

Bowling Team Places In NMA Tournament

Convair Fort Worth Management Club bowlers placed two teams in the top 100 in the nation at the recent eleventh annual bowling classic at South Bend, Ind., sponsored by the Michiana NMA Council.

The River Oaks Fence Co. came out thirty-eighth nationally, while Bird Dogs No. 10 rolled a seventy-fourth place standing.

Convair's teams were entered in the telegraphic category.

The ten other Management Club sponsored teams ranked from 133rd to 394th in the com-

Finn Wall Assumes New Job As CRA Council President

Worth's Dept. 30 takes over his president. new chores as president of the CRA employee council along with a slate of other new officers effective today.

Wahl, who had been with the company for 17 years, was elected president during a business meeting of the council at the clubhouse last week.

Other new officers include Art Gilligan, vice president; Emory D. Weimer, secretary; and R. L. Norment, treasurer. Gilligan is in Dept. 4-6, Weimer in Dept. 25-2, and Norment in Dept. 4-7.

At last week's meeting, outgoing President M. A. (Milt) Stewart paid tribute to council members and expressed his thanks to the thousands of volunteers throughout the plant who have helped to make CRA activities successful during the this record.

Finn Wahl of Convair Fort | past two years when he was CRA

"The success of the Frontier Day program given by CRA for delegates attending the National Industrial Recreation Association conference held in Fort Worth in 1958 was due largely to the work of C. J. Hall, CRA business manager," Stewart said.

"And we were especially honored when NIRA elected Convair Fort Worth's Tom Croft as its president."

Stewart passed along special bouquets to the CRA office staff for its fine work and achievements throughout the year and asked the council to give new officers their support in future months.

Overall CRA council attendance during the past 11 months totaled something like 83 per cent. Members were lauded for



NEW PRESIDENT — Finn Wahl, left, receives congratulatory handshake upon his recent election as CRA employee council president from outgoing prexy M. A. (Milt) Stewart. The newly elected officers take their offices effective today.

CRA Astronomers Make Plans For 'Scope Dedication April 18

Dedication ceremonies for the | to the club and who have distin-CRA astronomy club's new 19 inch telescope and dome will be held April 18 in conjunction with an awards buffet supper dance.

Astronomy awards will be presented to 21 people who have made the largest contributions

guished themselves as astronomers, Commissioner Art Gilligan

People to receive the CRA Astronomy Medal for meritorious service will be B. R. Stockman, William Johnson, Hardy Walton Jr., Ed Calvert, Marvin Fox, Bill Rapp, Joe Waggoner, Jim Green and Ralph Hopkins.

Also, H. Ankenbruck, Walt Burkhalter, John McCrea, Bruce Goss, Bruce Batchelor, Dave Norton, Skip Walton and five others whose names are being withheld until later.

Social hour will be from 6-7 p.m. at which time the buffet will be served. Awards and dedication festivities have been slated from 8:15-9:15 p.m. with dancing from then to midnight.

Table Tennis Set for April 11

A plantwide CRA table tennis tournament has been planned for 1 p.m. April 11 at the clubhouse.

Deadline for entering is April Blanks are being picked up To Basketball Championship CRA Rockets skyrocketed to play winner of the CRA and the CRA basketball champion-Convair Leagues for their title.

–Commissioner R. L. Evans, right, briefs a group

prospective softball enthusiasts on plans for the approaching

CRA season. A men's and women's league is being planned

this spring, and Evans is searching for more players.

Rollicking Rockets Fire Up

ship when they defeated Tooling

The Rockets, who took some honors in City League ball, came

back at the end of the season to

Betty Bowden of Dept. 22-0 is

the newly appointed co-commis-

left Convair after her recent

Mrs. Bowden will head the

morning session and will work

with the newly elected officers

New morning session officers

Betty Bowden

include Mrs. Glenn Carter, pres-

Mrs. Robert Snow, telephone

Next meeting for the morning

group is set for April 8 at 10

a.m. when C. D. Taylor will pre-

sent a travelogue illustrating

Co-commissioner Winnie Leon-

ard of the evening group does

not plan to have another meet-

ing before the spring fashion

show slated for April 25 at CRA.

Mrs. Leonard said that ar-

various vacation spots.

47 to 43 recently.

Mrs. Bowden

In CRA Post

and the CRA office.

ident; Mrs. Art Gilligan, first vice president;

Mrs. Robert Case, second

vice president;

Mrs. B. M.

Baggett, secre-

tary-treasurer; Mrs. C. B. No-

lan, hospitality

chairman; and

chairman.

marriage.

Tooling's quintette came out tops in the CRA Tuesday Night League, and Engineering was winner of the Convair Wednesday Night League.

When Tooling won over Engineers, they qualified to go against the Rockets.

The Rockets participated in state playoffs in Austin recently. They lost their first game with Fort Stockton, then won a forfeit from Houston, defeated Wichita Falls but finally sioner of CRA women's activities to fill the vacancy created bowed to Corpus Christi. by the former Mary Smith, who

Commissioner D. R. Cooper says that awards will be given to each league winner.

"This has been a good year for us, and CRA has been well represented in the City League this season," he said.

New Group Formed For Reliability, QC

Due to the increased interest in reliability in industry, a chapter of a professional group on reliability and quality control of the Institute of Radio Engineers was formed recently.

W. R. M. Burkhalter of Dept. 6-4 is the chapter chairman, and the vice chairman is L. T. Rankin with S. B. Chandler acting as secretary.

Plans for recruiting new members will be decided upon as soon as chapter by-laws have been set

Pieper to Address Industrial Engineers

Conservation Through Material Handling" will be the subject of Convair Fort Worth's Frank A. Pieper when he speaks before the Fort Worth-Dallas chapter of the American Institute of Industrial Engineers tonight at Cattlemen's Cafe.

G. H. Gustat, national president, will be present. Social hour starts at 6:30 p.m., dinner at 7:30 p.m., the meeting at 8:30

Is It News?

Is it news? Then grab a telephone and call Convairiety

Activities Calendar.

Convair Recreation Association events in the next two weeks are listed below. Readers interested may clip this column and save it for reference until next issue of Convairiety. For more information, phone CRA office, ext. 2771 at Fort Worth, ext. 424 at Daingerfield.

Fort Worth

Tonight, April 1 ASTRONOMY: work parties, 7 p.m. BRIDGE: master point session, 9:30 a.m., CRA.
CHESS: meeting, 7:30, CRA.
RANCH ACTIVITY: calf roping 8-10
p.m., ranch area, CRA.

Thursday, April 2

ARCHERY: shoot, 7-10 p.m., archery ARCHERT: shoot, 7-10 p.m., archery range, CRA.
ART: class, 7:30 p.m., FW Art Center.
BADMINTON: play, 7:30-10 p.m.,
Stripling Jr. High Gym.
RADIO: operating night, 7:30 p.m.,
CRA CRA.
SQUARE DANCING: classes: beginners
7 p.m.; advanced 8:15 p.m., CRA.

Friday, April 3 BRIDGE: duplicate session, 7:45 p.m., CRA.
PLAY: "The Matchmaker," 8:15 p.m., CRA Playhouse.
RANCH ACTIVITY: cutting 6-8 p.m.; roping 8-10 p.m., ranch area, CRA.

Saturday, April 4 ASTRONOMY: work parties, 8:30 a.m.-3 p.m., CRA. PLAY: "The Matchmaker," 8:15 p.m., CRA Playhouse.

Sunday, April 5

RANCH ACTIVITY: advanced riding lessons, 2 p.m., cutting 4-6 p.m.; roping 6-8 p.m., ranch area, CRA.

Monday, April 6
MOVIE: "Cavalry Scout" (color) with
Rod Cameron. Shown lunch period, 50
foot aisle.
VOLLEYBALL: league play, 6:45 p.m.,
Southside Recreation Building.

Tuesday, April 7 CAMERA: photography class, 7-9 p.m., CRA.
MODEL AIRPLANE: control line meeting, 8 p.m., CRA.
RANCH ACTIVITY: cutting 7-9 p.m.,
ranch area, CRA.
STAMP: meeting, 8 p.m., CRA.
TABLE TENNIS: tournament, 7:30
p.m., CRA. Wednesday, April 8

ASTRONOMY: work parties, 7 p.m., CRA.
BRIDGE: duplicate session, 9:30 a.m.,
CRA.
CAMERA: field trip, 7:30 p.m., Mrs. Baird's Bakery. RANCH ACTIVITY: calf roping, 8-10 p.m., ranch area, CRA.
WOMEN'S ACTIVITIES: Mr. C. D.
Taylor, "Travelogue—Vacation Spots,"
10 a.m., CRA.

Thursday, April 9 ARCHERY: shoot, 7-10 p.m., archery range, CRA. ART: class, 7:30 p.m., FW Art Cen-BADMINTON: play, 7:30-10 p.m., tripling Ir. High Gym. PLAY: "The Matchmaker," 8:15 p.m., CRA Playhouse.
RADIO: operating night, 7:30 p.m., CRA.
SQUARE DANCING: classes: beginners
7 p.m.; advanced 8:15 p.m., CRA.

Friday, April 10 BRIDGE: master point session, 7:45 BRIDGE: master point session, 7:45 p.m., CRA. PLAY: "The Matchmaker," 8:15 p.m., CRA Playhouse. RANCH ACTIVITY: cutting 6-8 p.m., roping 8-10 p.m., ranch area, CRA.

Saturday, April 11 ASTRONOMY: work parties, 9:30 a.m. ASTRONOMY: work parties, 9:30 a.m.-3 p.m., CRA.
PLAY: "The Matchmaker," 8:15 p.m.,
CRA Playhouse.
TABLE TENNIS: plantwide tournament, 1 p.m., CRA.

Sunday, April 12 MODEL AIRPLANE: control line contest, 1 p.m., Forest Park.
RANCH ACTIVITY: advanced riding lessons, 2 p.m.; cutting 4-6 p.m.; roping 8-10 p.m., ranch area, CRA.

Monday, April 13
MOVIE: "The Happy Time" with Charles Boyer. Shown lunch period, 50 foot aisle. VOLLEYBALL: league play, 6:45 p.m., Southside Recreation Building.

Tuesday, April 14 CAMERA: photography class, 7-9 p.m., CAMERA: photography class, 7-9 p.m., CRA.
COIN: auction, 8 p.m., CRA.
RANCH ACTIVITY: cutting, 7-9 p.m., ranch area, CRA.
ROCKHOUNDS: meeting, 7:45 p.m., CRA.
TABLE TENNIS: play, 7:30 p.m., CRA.





NEW STAUFFER—Convair Fort Worth women are now enjoying the recent installation of new Stauffer equipment at the CRA health club. Commissioner H. L. Carter reminded prospective health club and weight lifting people to renew their eligibility cards at the CRA office.

Convair Fort Worth Wins Nod In Atomic Airplane Project

(Continued from Page 1) Convair proposes would give this nation the most powerful striking force in history—and would make the world's most powerful force for peace."

Pleasure at the announcement was also expressed by Capt. S. R. Ragar, who serves at Convair Fort Worth as liaison between Convair and the Air Force on the nuclear powered aircraft pro-

Kalitinsky, who has been associated with the Air Force's nuclear aircraft program for more than a decade, coordinated the Convair Fort Worth team's efforts which developed Convair's winning presentation.

As many Convair FW employees know, the competition earlier had narrowed down to Convair FW and Lockheed Aircraft Corp.

Top ranking Air Force officials and consultants some months ago visited the Convair FW plant and Lockheed's plant at Marietta, Ga. They studied nuclear bomber proposals of both companies — and eventually gave the nod to Convair FW.

Teamed with Convair on the project is General Electric Co., which has the job of building the atomic power plant.

Kalitinsky said he feels the choice is a logical one since Convair Fort Worth was the first aircraft plant in the nation to go into nuclear research and development work.

"Our work in this field began in 1951, and included the design, building and testing of the world's first flying nuclear reactor," he added.

Kalitinsky also pointed out that Convair is a division of

DEADLINES SET ON SMU EXAMS

Deadlines for applying for entrance exams into the Convair-SMU graduate engineering program have been set for April 4 and April 18.

Prospective students applying of material is beyond correction for the first entrance exam on April 11 have been asked to sign up by April 4. Those taking the second exam on April 25 are required to register by April 18.

Exams will be held at 8:30 a.m. on each date on the SMU campus in Dallas, and successful

General Dynamics Corporation, and that a sister division-Electric Boat at Groton, Conn.—is builder of the first nuclear powered submarines in the world, and General Atomic Division is now developing an atomic power plant for merchant ships.

The Air Force's nuclear aircraft program actually dates back to 1946—and Kalitinsky has been associated with the program since

The new AF announcement does not mean, officials explained, that Convair will go on a hiring spree. Rather, person-nel will be added only if and when the need arises.

If and when a full-fledged production program is authorized, a substantial build-up in employment may be in prospect.



NEW PINS—Left to right, Nona Poston of Dept. 19-2 and Robert M. Brackney of Dept. 22-9 receive first of new Employee Suggestion pins and certificates now being awarded at Convair Fort Worth. B. G. Reed, assistant division manager, made presentation.

Quality Work Advocated As Way to Reduce Costs

(Continued from Page 1)

In factory operations, scrap 000 a month. and rework are the biggest items to fight to cut costs-and quality work will keep them to a mini-

A reworked part-one that wasn't made right the first time around-results in increased unnecessary costs because it must be processed a second time to correct defects.

Scrap-produced when a part

QUALITY MAKES

DOLLARS AND SENSE! IT PAYS OFF FOR YOU IN MORE JOB SECURITY,

LESS NEEDLESS WORK AND MORE SELF-

SATISFACTION.

is an average of more than \$120,-"So there's still a lot of room for improvement."

Ways employees can help reduce costs through quality work include these:

1. Help keep yourself and everyone else quality-conscious. 2. Maintain good housekeeping

in your area. 3. Take steps required to prevent damage to material and equipment.

4. Work to the latest blueprints, planning and other instructions.

5. Work with the proper tools. 6. Use correct materials.

7. Be especially careful on work that is more difficult to control and where chance of error is greater.

8. Keep aware that your work -whether manufacturing, assembling or providing some service —is reflected in the final cost and quality of the airplane.

9. Do everything possible to make the end product something YOU would buy if YOU were the

Tickets on Sale For Creativity Program

(Continued from Page 1) pose into their personal, business and professional lives.

Internationally known, the former Notre Dame professor and author of several advertising books has long been a drawing

"We need individualists today," he declared. "A committee could never have painted the Mona Lisa. The greatness of individu-

througout the Dallas-Fort Worth area have been invited.

Convair Men Among **Council Candidates**

Three Convair Fort Worth people are among the 27 candidates running for places on the Fort Worth City Council in the April 7 election.

Those in the race are Ted R. Yarbrough, Leslie H. Baker Jr. and R. Kent Jones.

Yarbrough, 43, has been a Fort Worth resident 17 years. He joined the company in 1951 as a development project man and is presently assigned to the B-58 flight test program.

Baker, who has 10 years service with Convair, works as a development liaison man. year-old resident of Fort Worth, he holds a bachelor's degree from

Jones works as a design engineer in Dept. 6-5 (GSE). He is a civil engineering graduate of Marquette University.



1,700 Hear

(Continued from Page 1) better our program. We've got the best equipment of any plant in the country," he said.

In answer to his question of where we are today, Davis said that we exist in only one instant in time-now. He said that with the present international situation, the country is faced with the question of how much it can spend on military preparedness.

"Our customer must seek the most economical means of maintaining military preparedness and for this reason we have got to do a good job but at the same time keep costs at the very minimum," he concluded.

"In the B-58, Convair reversed the trend toward larger and larger airplanes. It is smallerand therefore cheaper—than it might otherwise be."

Davis said that General Dynamics Corporation divisions are now "the champion-and can expect no quarter from any competition nor any preferred treatment by a customer.'

als is in being different and creative."

Tickets are \$3.50 and include both the creativity show and the luncheon. Officers, members of the board of control and the usual ticket agents are in charge in charge a limited 500-ticket sale.

T. F. Paniszczyn of Dept. was recognized as winner of the 1958 President's Award. He will receive his official award from top management at a meeting set for October. The other eight nominees for President's Award include SMU. University of Texas, Texas A&M, Texas Tech, Weatherford Junior College, Arlington State College, the University of Kentucky, Georgia Tech, Louisiana Polytechnical Institute, Northwestern University, University of Chlahoma. Oklahoma State University, University of Chlahoma. Oklahoma State University of Chlahoma. nominees for President's Award were recognized and presented with gold cuff links, a tie clasp and a lapel pin.

Oniversity, Double-links Stitute, Virginia Polytechnical Institute, Northwestern University, University of Oklahoma, Oklahoma State University, Baylor University and Illinois Institute of Technology.

First New ES **Pins Awarded**

The first new Convair Fort Worth people to wear the new Employee Suggestion pins are Nona Poston of labor accounting and Robert M. Brackney of Dept.

The two were presented with the new pins and also new ES certificates in a brief ceremony at which B. G. Reed, assistant division manager, presided.

Both Mrs. Poston and Brackney were chosen to receive the first awards because they now lead in the amount of savings on installed Employee Suggestions thus far this year. Mrs. Poston saved the company \$3,275, and Brackney has saved the division \$2,530. Their suggestion awards were ten per cent of these amounts.

Presentation of the awards is a part of the newly revised ES and CIP program at Convair Fort Worth.

Every eligible suggestor will receive a sterling lapel pin for his or her first ES or CIP installed after Jan. 1 of this year, M. J. Scott of the suggestion section said.

Backlog Set

(Continued from Page 1) in 1958. It is expected that they will exceed this figure in 1959.

"As is true in every new venture," Pace said, "serious prob-lems and financial risks face us at the beginning, but the longterm potential is so great that the directors and I look forward with confidence . . ."

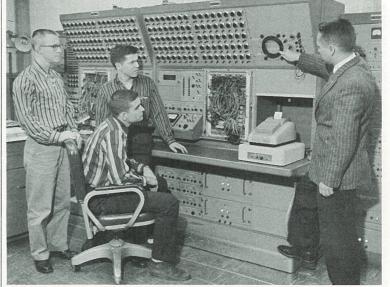
He listed as examples of the

corporation's "unique capability": orbiting the Atlas earth satellite; Atlas full-range flights; voyages of USS Nautilus and USS Skate under North Pole; 60-day submergence of USS Seawolf; successful builder's trials of world's fastest submarine, the Skipjack; invention, design and production of nuclear research reactor "Triga"; performance of B-58 Mach 2 bomber; roll-out and early test flights of 880.

Grads Choose Convair Jobs

Ninety per cent of the spring graduates who have been taking part in a cooperative study-work program with Convair FW, involving some 16 colleges and universities, have chosen to go to work for Convair.

The students have been alternating semesters of classroom study with periods of actual work at Convair FW.



COOPERATORS—Supervisor L. E. Heizer explains operations in Convair Fort Worth computer labs to engineering co-op students. Left to right, J. W. Brooks, Chattanooga, Tenn.; H. O. Van Zandt, Fort Worth; P. T. Vogel, Henderson, Ky.; and Heizer.



Convair and Technical Societies Donate To Science Fair To Be Held This Weekend

Convair Fort Worth, along | nations. with several technical societies, is backing the Fifth Annual Fort Worth Science Fair which gets under way April 3-5 at the Child- Worth student from grades 7-12. ren's Museum.

addition to Worth's check, presented by Mar- cipal. Students may enter one ion L. Hicks, assistant division exhibit in two categories-physimanager, representatives from cal and biological. such societies as the Aeronautical Weight Engineers, the Society pins, a trip to the national sciof Texas Professional Engineers, ence fair at Hartford, Conn., a and the Institute of Aeronautical Navy cruise and two TCU schol-Sciences were on hand with do- arships.

Co-chairman for this year's fair is M. F. Towsley of Dept.

by rework—is even more costly.

It results in increased unneces-

sary costs because both the ma-

terial and the work that went in-

to it go down the drain-and

"We made a big improvement

produces nothing.

The fair is open to any Fort Entry blanks are available from school science teachers or prin-

Awards will include trophies,



RAKING IT IN-M. F. Towsley (right) receives check from Marion Hicks (left), Convair Fort Worth assistant division manager, to help support annual Science Fair. Also contributing are Bob Thompson, A. T. Clemen and Jack Volder, representing different technical societies.



Fort Worth and **Daingerfield**

EDITION

Fort Worth news office: ext. 2961; Daingerfield news office: ext. 424

SAN DIEGO, POMONA, ANTELOPE VALLEY, VANDENBERG AFB, CALIF.

AFMTC, CAPE CANAVERAL, FLA., FORT WORTH, TEX.



OFF FOR UTAH-J. N. Baldauf of Dept. 36 puts finishing touch to modified B-58 nose section before departure for Hurricane Mesa, Utah. At right are J. E. (Jack) Hickok and K. E. Thompson, test engineers.

1,500-FT. DROP-This is cliff at Hurricane Mesa which marks end of sled run. Dummies, catapulted from rocket-driven nose section, fly out over this point and float to earth by parachute.

Nose Section Sent to Utah

A second round of tests involving the B-58 escape system is scheduled for early summer at Hurricane Mesa, Utah.

The test sled (a B-58 nose section specially modified for the task) left Convair Fort Worth y for Utah where mentation will be installed.

At Hurricane Mesa the test sled will be operated over the Air Force's Supersonic Military Air Research Track. Driven by rockets, it will race over the 12,000foot course that ends abruptly at the brink of a 1,500-foot cliff.

During the runs, dummies (simulating B-58 crew members) will be ejected at high speeds, and float down by parachute to the valley floor below. The cliff affords a more realistic test than is possible on flat ground and provides a longer period in the air for evaluation equipment.

Suggestion Box Plan Abandoned

A new way to turn in Employee Suggestions will eliminate the 104 suggestion boxes which have been familiar fixtures at Convair Fort Worth for more than 15 years.

M. J. Scott of industrial engineering's suggestion section said the boxes will give way to the in-plant mail system.

After new suggestion blank racks are installed on time clocks, employees, beginning May 15, will merely send suggestions through in-plant mail to the suggestion section, mail zone A-8.

"We ask that employees not deliver them to us personally," said Scott. "They can put them in a regular Convair mail system envelope, and drop them in any outgoing mail tray. It is not necessary that they be routed through supervision."

The new racks are due to be installed on time clocks by May 1. Suggestion boxes, which employees have filled with approximately 90,000 suggestions and Cost Improvement Proposals since the present boxes went up in 1952, will be removed by May 15. The new system will go into effect at that time.



NEW IDEA - For new ideas, new Employee Suggestion racks will go up on time clocks throughout plant this month. Pretty Joyce Gallagher of inspectionproduction shows what they will look like.

Management Club's 'Creativity' Program Slated For April 25 at Ridglea CC

25 on the one-man "creativity" program sponsored by Convair creative behavior to TWA, U.S. Fort Worth Management Club at Air Force and other organiza-Ridglea Country Club.

The entire program to spur creation of new ideas will be given by Dr. Herbert True, vice

Curtain rises at 9 a.m. April | president of Visual Research, Inc., and special consultant on tions.

In addition to Convair Management Club members, the (Continued on Page 8)

Cost Spotlight Turns on Small Items in Stock

More careful handling of nuts, bolts and other items usually thought of as "nickel and dime stuff" could trim thousands of dollars off a million-dollar-ayear business at Convair Fort Worth.

That's the considered opinion of S. E. G. Hillman, manager of material, whose department is focusing attention on these items this two weeks in the continuing plantwide drive to reduce costs.

"Miss Thrifty" posters urging employees to "take only what you need, and use what you take," will go up throughout the plant Thursday.

In addition to usual locations, the posters also will be placed at each of the 26 "consumption item" stock stations located through the plant to support production, test, tooling, modification and development programs.

"Employees may not realize it, but there are now 4,575 different parts which fall into this class," said Hillman.

Some of the more common:



nuts, bolts, screws, washers, rivets, cotter pins, electrical terminals, connectors, fasteners and taper pins.

To make these available without delay for employees trying to do a job, the parts are loaded onto a "wagon train" on the first shift. Then on the second shift, the train makes the rounds to replenish stocks at each of the 26

Most of the items are kept in glass jars at the stations—and Convair FW uses about 5,500 of these ordinary glass fruit jars at the stock stations.

Some of the "nickel and dime" items are actually much more costly. One high shear rivet, for instance, costs 54 cents each.

thousands of dollars a year. A Public Library. four-cent, self-sealing rivet, for example. About 800,000 of these are used a year—so the cost in a year is in the neighborhood of \$30,000!

Here Are Some Tips On Saving Stock

Ways thousands of Convair people can help reduce the waste and improve costs on the B-58 and other programs are these:

1. Take only what you need to do the job. 2. Keep stock station orderly

and materials segregated. 3. Keep the items in the stations-and not in paper cups,

pockets and tool boxes. 4. Report idle items to your supervisor so that they possibly may be re-allocated where they are needed.

5. Pick up any items dropped on the floor-to keep them out of floor sweepings.

Funds Allocated For First Phase in Reliability Plan

More than \$4 million was allocated to Convair Fort Worth by the Air Force last month to cover costs of the first phase of the B-58 reliability program. Dr. Norm Simpson said that the program, so far as is

known, is the first specific reliability program incorporated into an aircraft production program, although such programs have been used on missile

Simpson represented the acting manager of reliability in negotiations which led to Air Force approval of Convair's plans.

'Convair Fort Worth thus is once more a pioneer—since we're first in the nation to get into this matter of aircraft reliability a specific program," said Simpson.

The program is vital to success of the B-58 program due to the complexity of the systems in the B-58, the most sophisticated weapon system in the nation to-

Reliability goes hand in hand with costs, he pointed out, since the more reliable the B-58 is proven, the fewer will be needed to carry out a mission assigned it by the Air Force.

And by increasing effectiveness of B-58s, millions of dollars of taxpayers' money will be saved by requiring fewer spares, and less maintenance, as well.
Reliability classes have al-

ready started in engineering department, and a one-and-one-half hour short course in reliability is being offered all supervision this month by personnel department's educational services section.

"We'll need the careful attention of every employee working on the B-58," said Simpson, "since we already have discovered reliability problems in which 50 per cent of the difficulty could be traced to work that was

not up to standard. (Continued on Page 8)

Loyd Turner Wins School Board Race

Loyd L. Turner of Convair Fort Worth was the single Convair employee to win his race in the recent City Council and school board elections.

He was elected a member of the school board to serve a sixyear term. It was Turner's sec-Even some of the items that ond try for the post. He also is are under a nickel add up to president of the Fort Worth

Two FW B-58s **Visit Vegas For** Air Congress

Two B-58s from Fort Worth were expected to get a lot of attention at the World Congress of Flight this week at Las Vegas.

Two supersonic Hustlers of the B-58 test force at Carswell AFB in Fort Worth were scheduled to go to Las Vegas late last week at the request of the Air Force.

Pilots were Maj. K. K. Lewis, who returned recently from the B-58 "Raw Deal" cold weather tests in Alaska, and Maj. E. E. Bradley.

The two Hustlers, in addition to being on static display, were scheduled for two aerial demonstrations. One is a flight scheduled to be made during an address to the Congress by Gen. Curtis LeMay of USAF headquarters.

Also on the program for the B-58s was a plan to install a television camera in the pilot's compartment. The camera is tied in with a video tape. The scenes in and out of the pilot's compartment were to be recorded on the video tape, then broadcast nationwide later.

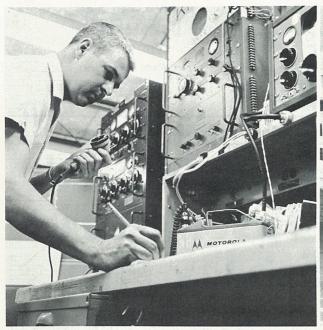
A third aerial view of the B-58 in action was scheduled for Wednesday, April 15, when the Hustler was to participate in an item listed on the program as "aerial demonstrations of the latest military aircraft."

A Convair team left Fort Worth April 7 to cooperate with the Air Force in its handling of the B-58s in the Congress.

From Dept. 85 were Earl Davis and Gene Gritton, tech reps; A. R. Long, a hydraulic specialist; and E. E. Crooks, a power plant specialist.

From Dept. 21 was R. D. Ragsdale, spares representative. From Dept. 64 was J. S. Collins, instrumentation research and development technician, and from Dept. 6-7 was Juan Garcia, flight test engineer.

vair General Offices in San Di- of the B-58 test force said both ego to Fort Worth in 1948. He of the B-58s were scheduled to is special assistant to the divi- return to Fort Worth April 15 after playing their roles.







AZUSA MARK II—A pick-up truck driven through San Diego back country plays part of "missile" in testing improved tracking system developed by Astronautics. Center, L. C. Cusick and R. C. Hansen put aboard power unit. In background under

plastic domes are some of antennas by which ground station keeps in touch. At left E. S. Carson operates radio link with truck, as well as small plane also used in tracking tests. At right is A. E. Hunt and control panel.

Engineers Hard Working, Less Creative in Soviet

The Soviet engineer works a | complished by the Academy of 44-hour week at his regular job, Sciences." puts in a lot of night work teachsalary, works constantly under his 40s as a result.

These observations were among hardly ever before age 40. many made before members of the San Diego Section of the Society of Automotive Engineers 2 p.m. Saturdays. The majority aircraft. recently by Secor D. Browne, assistant professor at M.I.T., recently returned from a trip to Russia.

"On the whole, Soviet engineers are less creative than their U. S. counterparts . . . and it is doubtful if the quality of their work is as good," Browne said. "Contrary to some current impressions in this country, the Soviet engineer is not '22 feet tall.'"

the exchange of technical and the engineer on to greater study scientific literature between in an attempt to get higher de-M.I.T. and the Russian Academy of Sciences, and during his trip visited libraries, universities and

asserted. "He goes either up or down, there is no in-between. A great percentage, unable to stand the tension, die in their late 40s, many from heart attacks and nervous disorders.

"The tension is applied as early as the elementary school. This is where the weeding out process takes place, based on the brightness of the student, the social position of his parents, and favorable standing in the eyes of the Communist party.

"The youth fortunate enough to attend the university (about is graduated five years later,"

work is handled by the institutes; gree' in both fields simultane-research and development is ac-ously," he said.

Many continue study for higher ing or writing to supplement his degrees. One, equivalent to our "master's" is attained somegreat pressure and often dies in where around age 32, Browne said. Few doctorates are awarded,

> "On the job, the engineer works 9 a.m.-6 p.m. week days, 9 a.m.must supplement their income, which they do by working nights Azusa Mark II. either on technical papers for publication or by teaching in universities

"The starting monthly salary is 800 rubles (not quite enough to purchase a cheap suit). With a master's degree the salary increases an additional 500 rubles."

Browne said it is important to remember that income from papers published or from teaching Browne, who speaks fluent can never surpass 50 per cent of Russian, last October arranged the base pay. He said this spurs grees, thus increasing his pay on both scales.

"Social life is almost non-existtechnical institutes in the USSR. ent. Because of limited acquaint-"The Soviet engineer works ances, chemical engineers marry under terrific pressure," Browne chemical engineers, thermodynamicists marry thermodynamicists, etc., establishing a pattern that

is rarely broken.
"This doubles the family income, naturally, but even then families are still crammed. sometimes as many as four families to an apartment.

"Because of the tendency to over-specialize, technical literature and information outside the engineer's specialty is not usually available to him. This cuts off an important source that could spark creative ideas.

"The majority of engineers are one in ten) starts at age 17 and not party members, but this as a statistic is misleading," Browne said. "Before one can become a "The engineering graduate does not go to work in a factory," and toil, equivalent almost to that mies run by the State. Design extremely difficult to get a 'de-

Azusa Mark II System Proved Out At San Diego by Truck and Plane

Convair Astronautics engineers | stallation at AFMTC this year. and technicians have gathered together an unusual assortment of test "tools" for putting an advanced electronic system through its paces.

Included are two-way "walkietalkie" radio units, a special mobile unit and an airborne system carried aloft via a single-engine

The system under test is the

Azusa Mark II is a highly refined and greatly improved version of the original Convair-developed system (Azusa Mark I) which has been used successfully with almost every ballistic missile launched from the Air Force

Missile Test Center in Florida. The Mark II is slated for in-

Basically, the operating theory on both systems is the same. However, additions made in the Mark II enable it to produce more accurate data over greater range. Azusa consists of a network of antennas and ground based electronic equipment which 'communicates" with an airborne transponder (receiver - transmitter) within the missile to give

velocity data. This information, fed into an IBM-709 computer and monitored by a plotting board, gives continuous predictions as to where the missile would impact, if power were shut off.

extremely accurate position and

To date, such predictions have, on occasion, been so ac-



OFF TO VANDENBERG—Second missile launcher for Atlas Browne said. "He usually joins put in by an engineer in his the staff of institutes or acade-field, must be accomplished. It is low bed truck in preparation for trip to Vandenberg AFB. It was assembled there by Astro crew.

SD Division Building Launchers As Assist For Atlas Program

sion under a contract to construct missile launchers for the Atlas ICBM.

First three units of the contract are being built in the Plant 1 experimental factory. Remaining number of the hold-down type launchers will be constructed at Plant 2.

First two of the 40-ton steel launchers were shipped last month by truck from SD Plant 1 to Vandenberg AFB where they were assembled by an Astronau-

As a follow-on order SD Division also will build additional units and a static test article which will be tested this summer at the Point Loma test site.

The program task calls for de-

Convair SD Division is giving and fabrication and tooling in an assist to Astronautics Divi- Plant 2 departments under W. P. Woods, chief tool engineer at Plant 2.

A new department (Dept. 269) has been formed for missile launcher final assembly under L. F. Boring, general foreman. Boring will continue to be in charge of Model 8 final assembly. In the organization of the new department, S. S. Stearns has been assigned as foreman.

When assembly gets under way, probably by the first part of June, said Boring, there will be between 50 and 60 working in the department. Final assembly will be done in the C-D bay at the south end of Plant 2's Bldg. 3.

Fabrication and tooling work is now in progress in the northwest section of Bldg. 2 under sign by Convair SD engineering already existing departments.

curate aircraft have been able to position themselves down range to actually see a missile plunge into the ocean. In fact, the vast majority of missiles recovered after firings have been equipped with the Azusa system.

"Although now essentially operational, our Mark I system began as an experimental one," said L. G. Chase, electronics group engineer responsible for ground station development. "The Mark II has been developed as an operational system."

Three years ago Convair contracted with the Air Force to design and build the Mark II. While initial planning called for installation of the system at AFMTC, later directions specified Astronautics was to build, assemble and test the complete system at San Diego. Assembly began about the same time Astro moved into its new plant.

Mark II is installed near the southeast corner of the Astro reservation. The 10 antennas are positioned into two lines in the shape of a small cross.

"We are constantly expanding the Azusa application and might eventually involve it in most ballistic missile and space programs," said Lewis Emmerich of the Azusa proj-

Don Prim is the Azusa group engineer for development. Fabrication of many parts as well as assembly of the system fell to Dept. 756 with M. G. Williams as the immediate supervisor.

Testing has progressed with installation. To make exacting checks on the system's accuracy, a special mobile test unit has been devised. It consists of a transponder, antenna and special power plant which are hauled into the San Diego back country via pick-up truck. There it exchanges signals with the ground station.

We can detect changes in target location with extreme accuracy," Prim said. "And from many miles away we can even detect small antenna movement caused by wind velocity and other factors."

Control and communication to the remote station is through two-way radio equipment, with the truck carrying a unit of the "walkie-talkie" class.

A recent addition to the test program is a Cessna 182 aircraft, flown for Astro on contract by a local firm. Installed in the aircraft is a transponder similar to those placed aboard missiles.

This plane, transmitting signals as it goes, is flown to distant points to allow tracking by the ground station.

Work is now under way at AFMTC on the Mark II final installation site. Astro's plant engineering department is monitoring this work.

Once the AFMTC site is complete and testing finished at San Diego, the Mark II will be crated and shipped to Florida.



"By th' time I get all this small print read, it'll be payday and I won't NEED the loan!"

Two Friday Holidays Slated For Summer

Convair people at all divisions can look forward to two

three-day weekends this sum-

Since both Memorial Day

(May 30) and the Fourth of July fall on Saturdays this

year, the Fridays preceding

will be company holidays. Convair plants at San Diego, Po-

mona, Fort Worth, Dainger-

field, and off-site bases will be

closed from Friday (May 29)

through Sunday (May 31), and

from Friday (July 3) through

Sunday (July 5).

New Gamma Camera Eye Peers Into Steel Parts

On-the-spot inspection of mas- type of equipment makes possible sive parts for the missile launcher program is now being done at thick to be penetrated by the

In the past, it was necessary to transport the huge steel parts to the Los Angeles area where tenance." inspection was done by a sub-X-ray machine.

The portable gamma camera, recently acquired by Convair SD, contains radioactive cobalt (Cobalt-60) as the source of radiation. The cobalt is in the form of a tiny capsule, approximately easily and used in places inaccessible to other types of nonthe camera unit.

a "Multitron," is used at both survey meters as a check on the Plants 1 and 2 on the missile radiation level. launcher program by E. J. Yanof G. R. Bailey, supervisor.

According to Bailey, "This new concluded Bailey.

The new gamma camera unit,

Convair SD by means of a "gam- X-ray equipment available. Adma camera" which can "see" vantages of gamma-ray radiothrough steel 5-in. thick and graphy include its ready portability, simplicity of operation, relatively low cost, as well as elimination of all need of main-Lou Beauchamp, SD industrial rontractor using a million volt hygienist, and Carol Purdy, X-ray machine.

inspection of welds in parts too

plained that the gamma camera is perfectly safe for the men using it when proper safety precautions are observed.

The small amount of radiation received by the trained operators one-fourth the size of an aspirin in all-day use of the cobalt source tablet, which can be transported is far below the permissible amount allowed by the Atomic Energy Commission. Operators destructive testing equipment. wear pocket dosimeters and film When not in use, the radioactive badges which are checked often capsule is safely stored in an to measure the amount of radia-800-lb. lead housing, known as tion to which they have been ex-The operation area is posed. patrolled constantly with gamma

radiation level.
"We especially want to remind naccone, trained operator of everyone to observe the safety quality control process lab (Dept. signs and flashing red lights 197-4). Work is under direction placed around excluded areas when X-raying is in progress,'



COMPLETED—Henry Growald, left, FW chief of engineering tests, talks with Scott Adams of plant engineering upon completion of Convair Fort Worth's high altitude laboratory. New facility, constructed by Arthur E. Magher Co. of New York, is one of largest facilities of type in U.S.

CONVAIR MEN ACTIVE AT SAE CONFERENCE

Four Convair men had major roles at the national aeronautic meeting of the Society of Automotive Engineers in New York City March 31-April 3.

R. A. Taylor of Convair SD engineering was secretary of a session on starting and servicing equipment for turbine transports.
M. L. Hicks of Convair FW

was a member of a panel on "Make or Buy" problems. J. B. Ottestad of the Convair Dynapak project presented a paper on 'Shaping by Plastic Deforma-

D. A. Heald of Convair Astronautics gave a paper on "Some Development Problems with Large Cryogenic Propellant Systems."

Over 2,000 experts in the missile and aircraft fields from all parts of the country attended the

'Weather Manufacture' Job of New Lab at FW

the weather these days at Convair Fort Worth.

"We're doing something about it!" said Henry Growald, chief

"We're not just talking about of engineering test, last week upon completion of new high altitude test chambers.

The weather is being controlled in the new laboratory—believed to be the largest of its type in the United States. It went into operation this month.

Composed of three chambers, two of which can be combined into one, the new facility can control temperatures from a minus 100 to a plus 400 degree Fahren-

It is designed to simulate altitudes from sea level to 100,-000 feet in a matter of a few minutes and can provide humidity from 20 per cent to 95 per cent at various tempera-

Unique in design, the size of the test chambers makes it possible for large components or complete aircraft systems to be subjected to environmental test-

Another flexible feature of the \$2½ million project is that all three chambers can be operated simultaneously and at different conditions.

The auxiliary systems can be used to supply vacuum, refrigeration and high pressure, high temperature air to test setups in the area adjacent to the labora-

A large console room resembles NBC's master control at Radio City in New York. Here with the press of a button and the turn of a switch or two, the weather and altitude remain at

the engineer's fingertips. Scott Adams of plant engineering has been project engineer on the facility working closely with the Arthur E. Magher Co. of New York.

Construction got under way in the fall of 1956.

Not limited to tests on the supersonic B-58 Hustler, the new laboratory is equipped to test new versions of even more sophisticated weapon systems.

Growald said the facility is designed to test the performance of components of high speed, high altitude jet aircraft before they ever leave the ground.

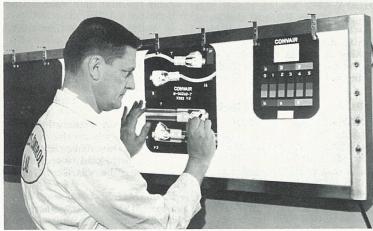
"We've got to take out all the errors we possibly can on the ground. When they get upstairs, the crew can't pull over and look under the hood," he said.

Bunker Hill Visitors Inspect FW Factory

Convair Fort Worth played host to some 30 community civic leaders from the vicinity of Indiana's Bunker Hill Air Force Base recently.

The group, which came to Fort Worth via Barksdale Air Force Base in Louisiana, dropped in at Convair as a part of a Strategic Air Command briefing.





"SEEING" EYE - In upper shot, E. J. Yannaccone (SD-Dept. 197-4) tapes flexible film around steel part to be photographed by means of gamma ray. "Gamma camera" in foreground contains cobalt source. In lower picture, D. J. Wine inspects negatives on reader in X-ray lab at Convair SD Plant 2.

Martin Transferred Back to San Diego As Rumbaugh Takes Over at Palmdale

Convair SD's Palmdale facility Division manager. since 1955, has been promoted to special assistant for the F-102/F-106 programs to B. F. Coggan,

Cal. Daylight Saving Will Start April 26

Convair people living in California will set ahead their clocks one hour the last Sunday of this month (April 26) as the state goes on daylight saving time.

According to California state law daylight saving time starts each year at 2 a.m. the last Sunday in April and ends on the last Sunday in September.

All Convair folk of San Diego, Astronautics, and Pomona Divisions will be reporting to work one hour "earlier" Monday (April 27).

William J. Martin, manager of | Convair vice president and SD

Before going to Palmdale to head operations there almost four years ago, Martin had been chief production flight pilot at Convair

His successor as Palmdale manager will be W. H. Rumbaugh, chief of field operations at Palmdale since the F-102A program was started there.

Joining Convair in 1940, Rumbaugh has worked in flight maintenance and field operations during most of his time with the company. He had been assistant general foreman, general foreman, assistant superintendent and chief of F-102 field operations in San Diego. He was chief of field operations for the first flight test of the YF-102 at Edwards AFB.

A native of Findley, Ohio, he was associated with Signal Oil Co. in San Bernardino before

joining Convair.

18 Radio Antennas Link 880 to Ground Stations All of the 18 antennas equip-|"hump" on the top of the center

ping the Convair 880 are now through the development part of matic direction finding (ADF the program and are in various stages of construction.

Antennas for communications, navigation, and weather radar are located in every part of the

Contrary to popular belief, antennas are no longer wires.

"All antennas must be mounted as flush to the surfaces of the plane as possible," explained Ray Justice, Dept. 6-34 senior electronics group engineer in charge of the microwave, antenna, and radome groups. "The wires which on conventional planes go from the tail cap to the front of the planes have been replaced entirely by flat-mounted anten-

Antennas on the new jet transport are round, square, oblong, shaped like small boxes or cups or long shields-with the outside openings covered with plastic and wires carrying the energy from the inside to the "box."

For instance, that

Sense) antenna. The entire tail cap at the top of the vertical stabilizer is a high frequency communication antenna. In the nose radome are located both the weather radar and the glide slope antenna for instrument landing. Others are placed in different parts of the fuselage.

Antenna research and development for the 880 has been going on since the jet transport was on the drawing board, over three years ago. Models of the plane with scale models of the different antennas attached have been checked out on the antenna pattern ranges atop Bldgs. 19, 51, and 4 at Convair SD Plant 1. The models are rotated on

towers, simulating free flight conditions, to test the antennas with energy generated from other Although antenna research has

been in progress at Convair SD for over 10 years, the program has been greatly accelerated during the 880 research and developblack ment period.



LISTENING POST—Kirk Abbey and Milton M. Chazotte Jr. of Convair SD engineering check scale model of antenna under test on 880 model during antenna radiation pattern studies on roof of Bldg. 51. Other test equipment in program can be seen in background on roof of Bldg. 19.



COMMUTER—Convair Fort Worth's J. T. Siler, senior structures engineer, saves gasoline by commuting to and from his home in McKinney, Tex. He gets 25 miles per gallon (at 25 cents per).

Ranch to Plant

Commuter Says It's Cheaper To Come to Work by Airplane

Worth's Dept. 6-2 literally flies miles per gallon. to work each day and says that

he's saving money, too. Siler, a senior structures engineer, downs his coffee and cereal for breakfast, jumps into his Luscombe 8A plane and makes it to his 32-acre farm which provides Fort Worth's Meacham Field adequate space for taking off from his farm in McKinney, Texas, in something like 30 minutes flat. He says it's about 50 air miles.

"There's no hustle and bustle of traffic up there," he said, pointing up to the wild blue yonder. "There aren't any red lights to slow me down either."

After he touches down at Meacham, he drives to work at Annex 2 and makes it in time to have a second cup of coffe before

Siler says it's cheaper to drive the plane to work than to use his The plane, which is valued at the same price as some of to-

FW Man Gets Civil War Gun

As his father had done before him, L. W. Brock recently handed over to his son, L. W. Brock Jr. of FW's Dept. 32, a Remington rifle that was used by U.S. troops in the Civil War.

Although a museum piece now, the gun is quite capable of being fired, the younger Brock said.

"However, it's quite a chore to load it."

Powder must be poured into the barrel and tapped down, followed by the shot, which also must be tapped in place. A small cap inserted below the hammer ignites the powder and fires the

"So I'll not use it for hunting," the younger Brock said. "By the time I loaded up, my target as a tall, skinny fellow and Eve would be across the Mason-Dixon as a pudgy, double-chinned char-

J. T. Siler of Convair Fort | day's low-priced autos, gets 25

A veteran of the Air Force Siler has been flying since 1939 but has had his plane for only three years.

There's a 1,600-foot runway on his 32-acre farm which provides and landing.

Convair Folk Aboard West Indies Cruise

Thirty-three Convair Fort Worth people were aboard the MS Italia ocean liner recently on two different Shrine cruises to the West Indies.

Both cruises originated from Galveston on March 14 and 23 respectively and were destined for the British colony of Jamaica.

Among the Convair people aboard were the Jim E. Topliffs, the Kenneth Bellamays, the J. D. Todds, the Ed Tates, the Norman L. Varners, the Ed Wrights, the Hershel Gibbs, Dan and Dorothy Harper, the John A. Efirds, the B. R. Harpers, the Glen Hudsons, the Ronald Southerns, and the Ed Chaneys.

Bill Chambers, son of F. E. Chambers, manager of industrial relations and security, was also aboard, as were Otha Coburn, who operates the plant cafeteria, and Mrs. Coburn.

The cruises terminated in Galveston on March 22 and 31.

Cartoonist at FW Wins Second Place

A cartoon titled "Adam and Eve" won a second place in the Fort Worth citywide cartoon contest this month for Convair Fort Worth's Russell J. Byther of Dept. 6-5.

Byther's cartoon shows Adam



REBEL CRY-Convair Fort Worth's L. W. Brock Jr., right, of Dept. 32 let out Rebel yell recently when his father handed over U.S. Army Civil War rifle as gift.

Writing Award Fund Rewards 114 Authors For Articles in '58

Convair writers at all divisions totaled 114 articles published in technical or trade magazines during 1958.

Writers received \$150 an article from the Convair writing award fund in lieu of payment from the magazines accepting the articles. The fund was set up in 1956 to encourage Convair people to submit articles of specific interest within the aircraft industry.

Until the fund had been established, little interest was shown in submitting articles to technical publications, as shown by the 17 published during the year before the program was started. The number increased to a high of 126 articles accepted during 1957.

San Diego Division authors led during last year with a total of 60 published articles. Fort Worth was second with 29; Astronautics, 15; and Pomona, 6. Three articles were accepted from the scientific research laboratory and one from General Offices.

Anyone interested in the program should consult the division public relations office on procedure. All manuscripts must be submitted through Convair.

T-29 Mod. Job **Due For Test**

First T-29 being modified at Convair SD for Air Force use as an airborne monitoring platform is due for completion within the next two weeks.

It will go into flight testing at SD the first of May before being ferried to Eglin AFB, Fla., next month for further off-site flight

A second T-29, now undergoing similar electronics modification at SD Plant 1, is scheduled for completion this fall.

The two Convair-built planes will go into use at Eglin Gulf Test Range, Fla., during missile tests. The T-29s will be flown over the 400-mi. range before and during tests to check out ground radar and telemetering stations, to monitor frequency interference in the area, and to record data during missile launching and flight tests.

Ground Broken For New Lab

Ground breaking for a new laboratory testing facility at Convair SD Plant 1 started last fornia at Berkeley.

week. The new steel frame building (Bldg. 72) will adjoin Bldg. 79, south of the wooden mockup building. Construction is being by Diversified Builders, done Inc., of Los Angeles under supervision of SD plant engineering at approximate cost of \$200,-

The one-story building, scheduled for late June completion will house hydraulic primary controls personnel and equipment of engineering's dynamic laboratories. Construction of the new facility is a part of the long-range program which eventually will see replacement of all dynamics lab facilities west of Bldg. 5 with new structures.

Plastics Conference Slated For Dallas

Designers will take a closer look at reinforced plastics from the aircraft and missile industry viewpoints at a one-day Regional Technical Conference to be held in Dallas April 28 at the Adol-

phus Hotel. Nick Novelli of Convair Fort Worth's material and processes engineering is program chairman. The conference is sponsored by the North Texas Section of the Society of Plastics Engineers, of which David A. Daniels of FW materials and processes is secretary.

Quirk of Fate

Wartime Germany Experience Leads to Career in Drafting

neering from a fashion designer to a design draftsman.

She developed her drafting skill in what was little more than a slave labor camp in wartime Germany where she was trapped by hostilities during a visit.

A German by birth, Mrs. Hodgins came to the United States with her family when she was 5. She became a citizen with her father. After attending secondary schools she was trained as



MEMORIES-Talents now devoted to helping produce Atlas ICBM at Astronautics were acquired in wartime Germany by Clare Hodgins, above, of Astro engineering.

George AFB F-102s Fly to North Island

A squadron of F-102s from George AFB, Calif., flew to San Diego early this month to join Navy and other AF pilots of the 27th Air Division of NORAD in their first annual fly-in.

Purpose of the fly-in, which saw F-89s of the 437th FIS from Oxnard AFB joining the F-102s from the 329th FIS and the F4Ds of the VAW-3 navy squadron, was to discuss teamwork and defensive tactics in their duty with the North American Air Defense

Linda Dobbs Science Scholarship Winner

Linda Dobbs, 18, stepdaughter of William Duerson of the Convair SD mail room at Plant 1, has been awarded a science scholarship to the University of Cali- Patton.

provides a The scholarship year's tuition and expenses at the University. Linda has had a straight A average in her major of mathematics at Lincoln High School where she will be a June graduate.

It took a war to change Clare a fashion designer, while her Hodgins of Astronautics engi- father built a successful interior decorating service.

In 1939 her family was informed of a family inheritance in Germany. There was just one catch-money from it had to be spent in Germany. So back to Germany the family went, intending to put the daughter through a three-year art course.

Hitler had made things hard for those who had renounced their citizenship. Mrs. Hodgins was denied permission to move from the city of the family holdings to another where the art school was located. However, she was told that perhaps after serving in a labor camp for a year she might be granted a permit.

"I joined the camp with girls my own age, and labor I did," Mrs. Hodgins said. "But the worst part was the attempted brain washing. It didn't take and after a year I was right back where I started. No permit."

In the interim Germany and the United States went to war.

For a time she worked in a medical center. Then came an opportunity to take up drafting. She graduated and was sent to work in a factory turning out gyroscopes and other electronic var goods.

Her associates were slave laborers, Russians, French and Belgians. Supervisors were German. Each received two meals a day. Most were herded to and from work by armed guards and lived in guarded barracks. Because of her German birth, Mrs. Hodgins was allowed to live in a nearby village. She also received "pin money," a small cash amount passed out every two weeks. During the day she was just another slave worker. At night she and her father, also a factory

worker, were closely restricted. Near the end of the war a steady stream of Allied prisoners passed through town. Some fell from exhaustion. Mrs. Hodgins secreted a dozen of these at various points and shared her rations with them. In March, 1945, the first Allied

troops appeared. "The first American I saw was a chaplain who came to the place I had gathered my GI patients," Mrs. Hodgins recalls. "I was so shaken up I couldn't answer his questions."

The chaplain returned her to headquarters where she was interrogated. One officer impressed her with his kind words. She learned later he was Gen. George

From March, 1945, until September, 1946, she worked for military units, awaiting permission to return to New York.

In 1949 she moved from New York to California and joined Astronautics about 18 months



FINALISTS—Daughters of two Convair FW families were finalists in Miss Fort Worth contest this month. Primping before going on stage, left to right, Ann Gross and Mary Laura Littlejohn. Ann is daughter of Mel Gross, Dept. 17. Mary Laura is daughter of W. M. Littlejohn, Dept. 46.

NEWS FROM OTHER DYNAMICS DIVISIONS

General Dynamics Corporation, created in April, 1952, as successor to Electric Boat Company, is composed of six divisions and a Canadian subsidiary, Canadair, Ltd., of Montreal, airframe builders. The divisions are:

Convair, head offices at San Diego, Calif., aircraft, missiles, and space systems.

Electric Boat of Groton, Conn., submarines.

Stromberg-Carlson, of Rochester, N.Y., telecommunications, electronic equipment.

Liquid Carbonic of Chicago, Ill., carbon dioxide producer, industrial and medical gases.

General Atomic of San Diego, Calif., nuclear research, development, production.

Electro Dynamic of Bayonne, N.J., electric motors, generators.



WRITERS-Aviation writers of Houston, Dallas and Fort Worth are shown at Carter Field in Fort Worth just before takeoff in Canadair 540 for press demonstration flight.

Canadair 540 Meeting a Warm **Reception Wherever it Goes**

who have operated Convairs, we don't have to sell them on the quality or performance of the aircraft.

"They've already sold themselves.

That's the reaction reported this week by a Canadair, Limited, team which is showing off the new Canadair 540 turboprop airliner and executive transport.

Ken MacDonald, a transplanted Scotsman who is sales manager for Canadair in Montreal, Canada, told a group of aviation writers at a meeting in Fort Worth April 7 that the new plane is meeting a warm reception everywhere it stops.

The writers, only a few min-The writers, only a few minutes before, had made a one-hour demonstration flight in the plane demonstration flight in the plane, flying out of Fort Worth's Amon Carter Field.

All the passengers indicated they were pleased with the plane's rate of climb—they were at 20,-000 feet in 15 minutes. They also indicated they were pleased with the quiet performance of the plane's Napier Eland engines. Each of the two power plants revs up to 3,500 hp.

Passengers appeared most impressed, however, with the lack of vibration in flight-even in a climb.

Other Canadair members of the sales team making a nationwide sales tour are B. G. Smith, assistant sales manager, and G. Haynes Davies, director of public

The plane earlier had been to New York, Washington, Atlanta and Houston. From Houston, it flew aviation writers to Fort Worth, returned them to Houston that night.

It flew back to Fort Worth on Thursday, April 9, to fly groups of Fort Worth and Dallas business and civic leaders. On Friday, it flew members of Convair Fort Worth's division operating council.

While at Fort Worth, it also flew representatives of airlines and business firms which operate executive transports.

It was due then to fly to Las Vegas to be on hand for opening of the World Congress of Flight, in which a number of Convair planes were also scheduled to

From Las Vegas, the plane is for 47 years.

When we're talking to people | due to continue its tour with stops in St. Louis, Chicago, Detroit, Minneapolis, Winnipeg, Edmonton, Calgary, Vancouver, Seattle, San Francisco, and Los Angeles. In all, it is visiting 19 North American cities over a route of some 12,600 miles.

The 540 is basically a Convair 440 transport engineered to incorporate the turboprop engines. It is being built in Montreal with the tooling originally used by Convair at San Diego to produce the 440.

Flight crew handling the ship is made up of Bill Longhurst, pilot, Michael Randrup and Ian McTavish.

Set For Today

GROTON - A nuclear submarine which enables man to outperform fish will be formally commissioned today (April 15) at the yards of her builder, Electric Boat Division.

Highlight of the commissioning ceremonies will be an address by the Vice Chief of Naval Operations, Adm. James S. Russell, USN.

The Skipjack, which embodies the celebrated blending of the H. E. Lee Transferred blimp-shaped hull with nuclear propulsion, has shattered all submarine speed records since builder's trials commenced on March 8. The revolutionary 252-foot, 2,-830-ton sub's performance has drawn high praise from Navy and Atomic Energy Commission officials since the start of sea

Stromberg-Carlson Names New Secy.

ROCHESTER — Appointment of Edward Diamond as secretary and general counsel of Stromberg-Carlson Division has been announced.

Diamond, who formerly was associate general counsel of the Atomic Energy Commission, assumed his new duties last week. In the position of secretary he will succeed Arthur F. Gibson, who will retire in April after serving with Stromberg-Carlson

BREWTON BECOMES A VICE PRESIDENT

Roy R. Brewton, Convair consince 1956, has named a vice president of Convair Division of General Dynamics Corporation, J. V. Naish, president, announced recently.

Brewton has been with Convair General Offices at San Diego, Calif., since 1943 following the merger of Con-



Roy Brewton

solidated Aircraft Corporation and Vultee Aircraft, Inc. He had been with the Vultee Aircraft, Inc. plant at Downey, Calif., for over 17 years as assistant treasurer in charge of taxes.

At San Diego he served as executive accountant until his appointment as assistant controller May 16, 1952. A year later he was named director of general

Pioneer Canada Private Pilot

accounting, first for Consolidated Vultee and later for Convair after merger of Consolidated Vultee with General Dynamics in 1954. He was assistant controller from August, 1955, until Feb. 13, 1956, when he was named

No. 13 Ticket

Recalls Barnstorming Days 40 years ago this one passenger at a time. month Convair SD's Bert A. charged \$15 for a 10-minute ride.

come!'

of gas."

Idlewild.

Shields, Dept. 15-6, received his Later I sat one passenger in the private flying license, the 13th other's lap and doubled the inthat Canada had ever issued. Now he calls upon his long ex-

perience in the development of aircraft in contributing to the operations manual for the Convair jet 880.

A youngster when the Wright Brothers flew first in 1903, Shields learned to fly in the Royal Flying Corps where he eventually served as flight instructor, 1917-

At the end of World War I, Shields was one of the first in line for a private license. One issued April 8, 1919, proclaimed Shields the 13th person to qualify in Canada for private flying.

Crossing the border later that year, he was issued license No. 543 by the U.S. Navy and Army Cognizance Board.

In the U. S. Shields promptly posted a number of "firsts."

On May 1, 1919, he had his own "airline" in operation. Flying from a potato field, he transported cargo from Banburger's Department Store in Newark, N. to Atlantic City—a distance of about 100 miles.

Shields turned barnstormer a short while later.

"It was apparent that money was to be made by taking people for airplane rides," Shields re-

"My plane, a Canadian version of the Curtiss-Jenny, was a two seater and I could only handle

To Astro on Coast

Howard E. Lee of Convair Fort Worth will report April 27 to Convair Astronautics where he will become chief of budgets.

Lee, who joined Convair at Fort Worth in June of 1951, was promoted to budget supervisor in 1952 and is now

in that position.

accounting at the State University of Iowa and did graduate work later in accounting at Omaha University. He is a native of Omaha.

Lee served as Howard Lee a captain in the Army in World War II. Before coming to Convair Fort Worth, he owned and operated the Texas Business College at Weatherford. Earlier he was with the VA.



DAYTON-WRIGHT-This was Dayton-Wright's Plant I at Dayton, Ohio, in June of 1918 at peak employment. Below are fuselages of DH-4s, built by Dayton-Wright.



Post-War Private Plane Market Proves a Bust

(Another installment in history of companies that contributed to ultimate formation of Consolidated Aircraft appears below.)

Early in World War I, Wash- and the British-designed DeHavilington decided to purchase fighter aircraft from the Allies and to concentrate domestic manufacture largely on training planes

In 1920 Shields set a record

for the longest solo ever regis-

tered up to that time in a sea-

plane. He flew 1400 miles-from

St. Petersburg, Fla., to Spring-

field, Mass. It took six weeks

cover in one hop was 100 miles,'

Shields said. "That was all the

fuel the 'Flying Fish' could carry.

the plane with five gallon cans

In 1927 Shields started the

Sunrise Flying Club in New York.

Now, at the same spot where

the club once operated, is New

York's International Airport at

ground schools and when univer-

sities and colleges sought quali-

fied instructors he was ready.

In 1937 he headed a staff of in-

structors who taught ground

schools at Columbia University,

During World War II Shields

rose to the rank of commander

in the U.S. Navy where he was

Brooklyn Polytech and NYU.

of the Point Mugu airstrip.

Shields foresaw the need for

"The longest distance I could

and required two overhauls!

land 4, a two-place reconnaissance bomber. The first sample DH-4 arrived from England in July, 1918, and was dispatched to Dayton-Wright at Dayton, Ohio, for study. Modified to accept the new Liberty engine and American machine guns, it was test-flown Oct. 29 by Howard Rinehart. The Army eventually con-

tracted with Dayton-Wright for 5,000 DH-4s and 400 SJ trainers, giving the company the largest dollar volume of any aircraft manufacturer with which it dealt. At the peak of operations the company employed 8,000 in three plants in the Dayton area.

Like other manufacturers, Dayton-Wright hoped a market for private craft would develop after the war, since the training program had taught thousands of young men to fly. The company brought out two cabin models in 1919 (to outmode what it described as "unsightly flying togs") and displayed a small I followed the coastline and fueled open-cockpit sports craft, the Messenger. It built a monoplane racer with retractable wheels (for photo see Convairiety, March 18) and a float-mounted cabin plane for use in the Canadian woods.

> As early as June, 1919, Orville Wright anticipated the lean years ahead when he wrote: "The expense involved in putting the aeroplane business on a sound commercial basis will be such that small, if any, dividends are likely to come from it for some time . . I therefore send in my resignation, in so far as salary is concerned, without withdrawing from any of my duties as consulting engineer."

superintendent of ground school training at NAS, Hutchinson, Kan., and later officer in charge General Motors Corp. acquired part of the company's assets and good will in 1919 for \$1,096,000 He authored a book in 1942, in debenture stock, thus making 'Air Pilot Training," which is Dayton-Wright a subsidiary. The now in its fourth edition. He Dayton-Wright Co. (which lost "Airplane" from its title in the later wrote a series of four high 1919 reorganization) was disschool textbooks on ground school solved by GM in 1923.



JENNYS TO JETS-Bert Shields, aviation pioneer (on right), now working on operations manual for 880, and G. P. Williams, assistant supervisor service publications at Convair SD, check out data in

Co-commissioners Winnie Leon-

ard and Betty Bowden. Tickets

will be by Neil Weatherhogg.

This spring's show, which is being presented by Cox's, will feature the latest sports, play clothes and cottons. Models will be furnished by Cox's, and music

Tickets are \$1 and are being

distributed on first shift by Lois Tidwell, ext. 3203; Mary C. Smith, ext. 2166; and Mrs. Leon-ard, ext. 2717. Second shift, La

Juana Joyner, ext. 3230; Cindy Ruyle, ext. 3621; Helen Baggett,

telephone office; and Mrs. Bow-

are Myrtle Nolan, PE 8-3632, Jewel Wendorf, PE 7-6360, Doris

Wives at home selling tickets

will be limited to 400.



Daughter Is 'Sweetheart'

Pert Diane Rogers, 18-year-old daughter of Mrs. Vada Wilson of Dept. 22-2, is the sweetheart of the 949th Armored Ordnance Battalion of the 49th Armored Division of the Texas National

Miss Rogers won the battalion title as a representative of Headquarters Company. She's to enter division level competition with 30 other contestants May 15. Division level winner will review a special parade this summer at Fort Hood.

High, Miss Rogers was vocational industrial arts sweetheart at Technical High School in 1957. She's planning to major in psychology at TCU upon graduation. High.

Ticket Sales Begin for CRA Annual Spring Fashion Show

Ticket sales are now under way | ets will be April 22, according to for the CRA women's club annual spring fashion show set for 1 p.m. April 25 at the clubhouse. Deadline for purchasing tick-

Davis Is Named To Head Bridge

Barton Davis of Dept. 4-3 has succeeded G. P. Anderson as CRA bridge commissioner, Tom Croft, chief of employee services, announced this week.

Davis revealed plans for the formation of a special hospitality

committee to welcome new players and perform other functions. He said also that bridge classes will be offered along with the duplicate sessions.



O. B. Davis

A native of Kansas, Davis attended Emporia Teachers College and Sterling College in the sunflower state and came to Fort Worth in 1949 to work for Montgomery Ward. A senior at Carter Riverside He joined Convair in 1951.

Davis is married and has two children. One is a student at Arlington State College, and the other is a senior at Poly Tech

Carter, PE 7-4222. 'Matchmaker'

den, ext. 2025.

Wing and Masque Players took their final bows Saturday night at the Playhouse as "The Matchmaker" closed after an all time record breaking attendance.

tight-fisted Horace Vandergelder and Guy Spencer's rendition of the "adventure loving" Cornelius Hackl will probably be counted

Margaret J. (Kitty Karr) Wil-

New finds with jobs well done

The wit of playwright Thornaudience's interest.

The show was ably directed

Counts Take Two Stan Brown and Chesley Firsts in Show Convair Fort Worth's W. M.

Counts and his wife took top honors with both of their orchid entries in the recent seventh annual citywide Flowercade.

The Counts, representing the CRA garden club, won with a Doris variety of a Phalaenopsis by Store on Henderson, the Ridgand a Granuloso variety of a lea Glidden Paint Center on Cattleyas. All Fort Worth garden clubs were represented.

ment Club's Charles A. Lind-

bergh Air Explorer Scouts are in

the midst of a recruiting cam-

paign in hopes that their new

Dept. 21, J. F. Holaday; Dept. 22, S. Guier Jr.
Dept. 24, M. V. Johnson, E. C. Rinefeldt, A. B. Cetto; Dept. 25, E. Evans,
T. E. Greene, E. S. Grilley, J. R. Rolfing, L. A. Webb.
Dept. 30, E. M. Pipes; Dept. 64, R. Y.
Thomas Jr.; Dept. 65, H. E. Aman; Dept.
81, G. W. Cogburn Jr., J. E. Cranford,
J. L. Jones.
Daingerfield
The way: Dept. 2. B. B. Holliday.

Ten-year: Dept. 2, B. B. Holliday.

Club-Sponsored Air Explorer

Convair Fort Worth square | have three acts and will be under the direction of Charles Duke. In addition to the Trebletones

ON SHOW BILL—Castleberry High School's Trebletones and

Gleemen will be on the show bill of the annual plantwide CRA

square dance on April 25. Here the group, surrounding their director Charles Duke, rehearses for their part of the show. They've

won the cup for the Tarrant County Talent Show for AAA high

schools. Many are sons or daughters of Convair employees.

Square Dancers to Kick Heels

At Plantwide Dance April 25

dancers will take an old fash-ioned "cake walk" at their an-

nual square dance set for 8:15

Highlight of the annual affair

Former Convairiety secre-

tary, Bobbie Sue Marr, wife

of Charles C. Marr of Dept.

6-4, came home from Harris

Hospital last week with a

new six pound eight and a

The Marrs have named her

will be the Trebletones and the

Gleemen from Castleberry High School. This musical group will

p.m. at CRA April 25.

It's a Girl at the

half ounce girl.

Marr's House Now

and Gleemen, the Denton Playboys will be on hand for square dancing. There'll also be a Dixieland band featured as part of the entertainment.

"All Convair employees who square dance are certainly invited to this party," Commissioner Ross Carney said.

Ladies bringing cakes (homemade) will be admitted free but the men will be charged 60 cents at the door.

Artists Entering City's Art Fair

Several Convair Fort Worth artists are entering the citywide 'April Art Fair" April 18 and 19 at the Botanic Gardens.

This open show, which will be held outdoors in the gardens, will not be on a competitive basis. There won't be any judges or prizes, but the artists will have an opportunity to show and sell their work. Everything will be on an informal basis.

Entry blanks are \$1 and may be picked up at the Art and Hob-Camp Bowie and at the Garden

Log Book Entries

Promotions FORT WORTH

FORT WORTH

Promotions to and within supervision, professional and administrative effective March 30:

Dept. 6: to aerodynamics engineer sr., W. Curtis III, M. K. Fox, J. F. Mayes; to assistant project engineer, L. W. Perry Jr.; to design engineer sr., R. G. Deering, W. W. Eikel, H. H. Nickelson Jr., J. F. Shepherd, C. G. Spriggs; to engineering writer, C. H. Herod; to flight test engineer, sr., R. E. Beissner; to structures engineer, G. R. Bingham; to nuclear engineer, sr., R. E. Beissner; to structures engineer, K. E. Brown, R. G. Jacobs, C. B. Lucas; to structures group engineer, A. Clemen; to weight coordinator, J. H. Reuther Jr.

Dept. 18: to sr. price estimator, S. L. Markland; Dept. 21: to spares project administrator, R. E. Nible; Dept. 22: to master scheduler, C. R. McDaniel Jr.

Dept. 28: to chemist sr., T. J. Foy Jr.; Dept. 29: to quality control liaison man, E. O. Norton; Dept. 46: to foreman, L. R. Blake; Dept. 89: to subsystems procurement coordinator, B. D. Barber.

Awards

The following received Employee Suggestion awards totaling \$1,040.55 for the period ending 27 March:

W. A. Beck, H. A. Blair; Dept. 4, S. W. Goodnight, M. M. Miller Jr.; Dept. 24, J. W. Childress; Dept. 25, C. E. Jones, D. M. Loving, A. W. Smith.
Dept. 27, D. M. Carter, B. R. Fisher, D. C. Lain; Dept. 28, D. G. Baker, R. E. Baugh, T. P. Tyler; Dept. 30, L. Bussell.
Dept. 31, R. Jara; Dept. 34, J. R. Hall; Dept. 35, G. W. Eyster; Dept. 36, M. H. Southerland; Dept. 46, F. F. Henslee, R. H. Mauldin, M. H. Smith.
Dept. 54, R. L. Chadwick; Dept. 56, C. E. Helton; Dept. 57, M. S. Fuller; Dept. 58, C. A. Potter; Dept. 64, R. L. Jessee.
Dept. 75, J. H. Baucum, J. H. Nealey, C. L. Swearengen, R. W. Wilson, J. A. Wood; Dept. 81, J. L. Scaggs, W. H. Troxell; Dept. 82, J. H. Wetz.

Ketirements

LEWIS—J. M., Dept. 14. Original hire date August 22, 1949 (FW), retirement ef-fective March 23. P. O. Box 2144, Ft. Worth, Texas.

worth, 1exas.

SHELTON—W. H., Dept. 46. Original hire date October 31, 1946 (FW), retirement effective March 31, 120 Keyridge Terrace, Ft. Worth, Texas.

ADAMS—J. W., Dept. 27. Original hire date October 27, 1942 (FW), retirement effective April 7. Archer City, Texas.

ANDERSON—R. L., Dept. 99. Original hire date January 18, 1951 (FW), retirement effective April 16. 1728 Fifth Avenue, Fort Worth, Texas.

MOODY—J. R., Dept. 46. Original hire date October 6, 1947 (FW), retire-ment effective April 14. 209 East Place, Fort Worth, Texas.

Births

FORT WORTH

BARDEN—Elizabeth Jane, girl, 7 lbs. 6 ozs. born March 15 to Mr. and Mrs. Robert Barden, Dept. 33.

MOSELEY—Edward Steele, boy, 7 lbs. 11 ozs., born March 22 to Mr. and Mrs. E. S. Moseley, Dept. 6-5.

HAZELTON—Roy Andrew, boy, 7 lbs. 5¼ ozs., born April 5 to Mr. and Mrs. M. L. Hazelton, Dept. 81.

MARR—Peri Lee girl 6 lbs. 8 ozs.

MARR—Peri Lee, girl, 6 lbs. 8 ozs., born April 5 to Mr. and Mrs. Charles Marr, Dept. 6-4.

Deaths

CHERRY—E. E., Dept. 25, died April 3. Survivors include his wife, two daughters, two brothers, three sisters and seven grandchildren.

NORTH—W. J., Dept. 46, died April 4. Survivors include his wife, two sons and one daughter.

Personals

We wish to thank our many friends at Convair, and the company itself, for their kindness and expressions of sympathy dur-ing our recent bereavement. Also those who contributed to the American Cancer Society.

Mrs. Gordon W. Graff Gordon A. Graff Bette C. Graff

Bette C. Graff

Our heartfelt gratitude to the many personal friends and associates of Milburn C.
Copold throughout Convair, for the warm friendship and expressions of sympathy and understanding as evidenced by the multitude of messages, cards and beautiful floral offerings.

Mrs. Milburn C. Copold Justine Brooke Copold Steven David Copold

My sincere appreciation to those who

My sincere appreciation to those who stopped to render aid at the scene of the automobile accident on March 20, 1959. Bryan E. Hanley Jr., Dept. 22

Hitchhikers

RIDE WANTED—from 2310 Sixth Avenue (south side), 8-4:45 shift, call Jack Wilson, ext. 3442.

RIDE WANTED—from 3241 Lubbock (TCU), 7-3:45 shift, call Jean McGarrity, WA 4-9011.

RIDE WANTED—from 2309 Columbus, 3:45-12:15 shift, call K. B. Kramer, MA 6-0030.

RIDE WANTED—from 2107 College Ave., 8-4:45 shift, call Carrie Brent, ext. 3605.

The Passing Fort Worth The following service emblems were due during the period April 16 through April during the period April 16 through April 30. Fifteen-year: Dept. 7, M. H. Lamb; Dept. 22, J. B. Huggins, A. C. Johnson, H. M. Mahaffey, V. L. Wilson; Dept. 24, O. F. Haibe, B. S. Shannon. Dept. 28, J. M. Thompson Jr.; Dept. 29, E. E. McGee, S. G. Wasser; Dept. 31, H. Campbell; Dept. 33, N. S. Brooks. Dept. 36, A. B. Batchelor, H. Peninger; Dept. 46, H. C. Boen, J. L. Bridges, C. L. Buchanan, J. D. Paris, M. W. Parish, J. I. Parnell, M. Sainz. Dept. 54, L. G. Adams, L. E. Wright; Dept. 55, J. P. Lee; Dept. 56, R. T. Anderson, C. D. Lambert; Dept. 58, D. N. Kincaid. Dept. 63, A. J. Howell, E. H. Ketcham; Dept. 65, R. L. Shrum; Dept. 74, O. C. Lovell; Dept. 81, L. L. Mosman. Ten-year: Dept. 4, B. L. Bradford, B. L. Gumm, P. Logan, S. E. Whittington, Dept. 6, R. F. Barrows, D. E. Pickerel. Dept. 14, H. J. Oats, E. E. Watson; Dept. 15, N. Daves; Dept. 20, W. Watson; Dept. 21, J. F. Holaday; Dept. 22, R. C. Guier Jr. Dept. 24, M. V. Johnson, E. C. Rine-

For Next Drama

Wind," the next CRA Wing and Masque production slated for June, have been under way since at 7:30 p.m. at the 2966 Park Hill

Clyde Shrell, engineering motion picture director, will direct the show with the assistance of June Randolph.

Casting calls for 21 men, six women, one girl 12 years old, and two teenage boys. Results of casting will be revealed in the next issue of Convairiety.

presented at the Dallas Theatre 55 and later moved to the National Theatre in New York City

Scouts Add Rocketry to Plans Convair Fort Worth Manage-Irocketry and guided missile pro-

> gram will attract new members. In addition to the rocket and missile program, the air scouts are also taking an active part in the Fort Worth civil defense pro-

The group hopes to test fire rocket models soon, and scouts also are making plans to fly as airplane passengers.

Foight of 8012 Tumbleweed Trail, a former Air Force officer who headed the scouting program while stationed in England, is leader of the Convair troop.

The air scouts meet every Tuesday night from 7-9 p.m. at the Air Force Reserve Center at 2808 Crestline Road. Meeting there, the scouts are able to use Air Force equipment and training films.

Active management club members working with the group include W. R. Childress Jr., Ennis Kerlee, A. E. Moon and J. R.

People interested in learning more about air scouting are asked to contact Foight at

Is It News?

Is it news? Then grab a telephone and call Convairiety

Convairiety

International Council of Industrial Editors

Founded Sept. 1, 1948. Published in six editions (Fort Worth-Daingerfield, San Diego, Pomona, Astronautics, Mail Edition and Antelope Valley-Holloman) by Convair Industrial Relations, General Offices, San Diego, Calif., Logan Jenkins, editor.

Approximate current total circulation, over 65,000. News items and letters to the editor are solicited, but no advertising can be accepted.

SD Editorial Offices, Building 32, Plant 1, ext. 1071. Staff: Grayce Fath, Helen Pemberton, Fred Bettinger.

FW Editorial Offices, Col. 73-C, Ext. 2961. Mailing Address: Convairiety, Convair, Fort Worth, Texas. Telephone PE 8-7311. Staff: Bob Vollmer, Fort Worth editor; Pat Baker, Mary Beck.

Astronautics Editorial Offices, Bldg. 2, new plant, ext. 1154. Staff: Bryan Weickersheimmer, Astronautics editor.

Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8, Staff: James Combs Jr., Pomona editor; Dorothy Keller. Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.



Erwin Swint's portrayal of the among the best performances come "Connie" awards time.

son's characterization of the scheming Dollie Levi was com-mendable as was the Jean Mooneyham portrayal of the flustrated Irene Malloy.

were Pat Baker as the naive Barnaby Tucker and Vic Patoski who played Malachi Stack.

ton Wilder managed to keep the

Niemi Wins Award With New Sailplane

Leonard Niemi of the preliminary design section received an award of achievement recently from the local Dalworth chapter of the Experimental Aircraft Association for the successful flight of his home built high performance sailplane.

Niemi started working on his sailplane idea about six years ago but actually didn't start construction until some two years

One problem he coped with was building a 25 foot wing in a 23 foot garage.

The sailplane is all metal and can be disassembled and put into

Chapter 34 of the Experimental Aircraft Association meets the first Sunday of each month at 2:30 p.m. at Arlington State College.

Tryouts Under Way

Tryouts for "Inherit the Monday and will wind up tonight Drive Playhouse.

"Inherit the Wind" was first for 803 performances.

Garden Club Flower Show Is Planned for CRA Next Month

thumbed gardeners are making Mrs. Bobbie French, classificaplans for a Spring Flower Show at the Botanic Garden Center Smith, publicity. next month.

The show has been set for May 23. Hank Dvorak will serve as chairman. Theme for the spring and Mr. and Mrs. Clyde Shrell, show will be "The Miracles of education. the B-58."

Mrs. Esca Brown, staging; Mr. fice.

Convair Fort Worth's green- and Mrs. Elbert Bartley, entries; tion, and Miss Mary Cathryn

Also, Mrs. Alice Arnold, hospitality; Mrs. Betty Bayne Shafer, judges; Mrs. French, awards;

Other committeemen are Mrs. Entry cards may be obtained from club officers, the show G. L. Allen Jr., schedule; Mr. and chairman or from the CRA of-



PREPARING FOR SHOW-Left to right, Mrs. R. E. French, Mrs. Mildred Hancock, Mrs. Peggy Eichholtz and Mrs. G. L. Allen Jr. prepare for the Spring Flower Show set at Botanic Gardens May 23. CRA garden club people may pick up entry blanks at the CRA office or from club officers.

Astronomers Will Dedicate 'Scope at CRA Saturday

members of the astronomy club the largest contributions throughwill dedicate the recently finished 19 inch telescope and dome with a special dinner set for Saturday night at the CRA club-

Social hour will be from 6-7 p.m. at which time a buffet supper will be served.

Following the supper, there will be a presentation of awards and the dedication. A dance will

continue until midnight. Cost of the evening is \$1.75 per person, and guests are wel-

CRA astronomy medals will be service.

Commissioner Art Gilligan and awarded to 21 people who made out the telescope project.

Those receiving these awards will be B. R. Stockman, William Johnson, Hardy Walton Jr., Ed Calvert, Marvin Fox, Bill Rapp, Joe Waggoner, Jim Green and Ralph Hopkins.

Also, H. Ankenbruck, Walt Burkhalter, John McCrea, Bruce Goss, Bruce Batchelor, Dave Norton and Skip Walton.

Four other people, although not participating members, will be recognized for meritorious

come, the commissioner said.

Activities Calendar . . .

Convair Recreation Association events in the next two weeks are listed below. Readers interested may clip this column and save it for reference until next issue of Convairiety. For more information, phone CRA office, ext. 2771 at Fort Worth, ext. 424 at Daingerfield.

Fort Worth

Tonight, April 15 ASTRONOMY: work parties, 7:30 p.m.,

RA.
BOATING: meeting, 7:30 p.m., CRA.
BRIDGE: duplicate session, 9:30 a.m.,

CRA.

DRAMA: casting for "Inherit the Wind," CRA Playhouse.

RANCH ACTIVITY: calf roping, 8-10 p.m., ranch area, CRA.

SOFTBALL: engineering league play, 7:30-9 p.m., CRA.

Thursday ARCHERY: shoot, 7-10 p.m., archery ARCHERY: shoot, 7-10 p.m., arcnery range, CRA.
ART: class, 7:30 p.m., FW Art Center.
BADMINTON: play, 7:30-10 p.m.,
Stripling Jr. High Gym.
RADIO: operating night, 7:30 p.m.,
CRA.
SOFTBALL: engineering league play,
7:30-9 p.m., CRA.
SQUARE DANCING: classes: beginners 7 p.m., advanced 8:15 p.m., CRA.
Friday, April 17

Friday, April 17
BRIDGE: duplicate session, 7:45 p.m. CRA.
RANCH ACTIVITY: cutting 6-8 p.m.; roping 8-10 p.m., ranch area, CRA.
SOFTBALL: Convair league play, 7:30-9 p.m., CRA.

Saturday, April 18
ASTRONOMY: dedication ceremonies, 6 p.m., CRA.
GOLF: sweepstakes, Rockwood Golf
Course.

Sunday, April 19
CHESS: meeting, 2 p.m., CRA.
MODEL AIRPLANE: free flight contest, 1 p.m., Western Hills (North).
RANCH ACTIVITY: advanced riding lessons 2 p.m.; cutting 4-6 p.m.; roping 6-8 p.m. ranch area CRA lessons 2 p.m.; cutting 4-6-8 p.m., ranch area, CRA.

Monday, April 20
MOVIE: "The Bamboo Prison" with Robert Francis. Shown lunch period, 50-foot aisle.
VOLLEYBALL: league play, 6:45 p.m., Southside Recreation Building.

Tuesday, April 21

CAMERA: photography class, 7-9 p.m. CRA.
MODEL AIRPLANE: radio control meeting, 8 p.m., CRA.
RANCH ACTIVITY: cutting, 7-9 p.m., ranch area, CRA.

SOFTBALL: Convair league play, 7:30-9 p.m., CRA. SKIN DIVING: meeting, 7:30 p.m., CRA. STAMP: meeting, 8 p.m., CRA.

Wednesday, April 22 ASTRONOMY: work parties, 7:30 p.m., BRIDGE: duplicate session, 9:30 a.m., CRA.
CAMERA: color slide contest, 7:30 p.m. CRA.
RANCH ACTIVITY: calf roping, 8-10

RANCH ACTIVITY: call roping, 8-10 p.m., ranch area, CRA.
SOFTBALL: engineering league play, 7:30-9 p.m., CRA.
WOMEN'S ACTIVITIES: Mrs. Maybell Criner, "Passport to Charm," 10 a.m., CPA

Thursday, April 23 ARCHERY: shoot, 7-10 p.m., archery Reservations Now range, CRA.
ART: class, 7:30 p.m., FW Art Center.
BADMINTON: play, 7:30-10 p.m., Stripling Jr. High Gym.
RADIO: operating night, 7:30 p.m.,
CRA.

CRA. SOFTBALL: engineering league play, 7:30-9 p.m., CRA.
SQUARE DANCING: classes: beginners
7 p.m.; advanced 8:15 p.m., CRA.

Friday, April 24 BRIDGE: duplicate session, 7:45 p.m. CRA.
RANCH ACTIVITY: cutting 6-8 p.m., roping 8-10 p.m., ranch area, CRA.
SOFTBALL: Convair league play, 7:30-

Saturday, April 25 SQUARE DANCING: old fashion cake walk and minstrel show with dixie land band, 8:15 p.m., CRA.
WOMEN'S ACTIVITIES: spring fashion show, 1 p.m., CRA Clubhouse.
Sunday, April 26

RANCH ACTIVITY: advanced riding lessons, 2 p.m.; cutting 4-6 p.m.; roping 6-8 p.m., ranch area, CRA.

Moday, April 27

MOVIE: "The Flight to Mars' (color) with Cameron Mitchell. Shown lunch period, 50-foot aisle. VOLLEYBALL: league play, 6:45 p.m., Southside Recreation Building.

Tuesday, April 28 CAMERA: photography class, 7:9 p.m.

GARDEN CLUB: meeting, 7:45 p.m., Garden Center.
RANCH ACTIVITY: cutting, 7-9 p.m., ranch area, CRA.
SOFTBALL: Convair league play, 7:30- choir has previously been seen 9 p.m., CRA. TABLE TENNIS: play, 7:30 p.m., CRA. on the Pat Boone TV show.

Golfers Start Sweepstakes

Saturday CRA's golfers will get into full swing again at Rockwood Golf Course with CRA's April Sweepstakes.

Sweepstakes will be a blind low net foursome affair, and contestants will make up their own foursomes. Handicaps will be used to place contestants in four equal groups.

Names will be drawn from each group at the conclusion of play to comprise four man teams. Net scores will be added to determine winning foursomes.

Golfers who do not have handicaps established will be placed according to their score that day, and around 50 per cent of the entries will take home prizes.

The annual plantwide championship tournament has been set tentatively for June 13. Handicaps must be established for this competition.

CRA Softball League Play Begins for '59

CRA league softball got under way last week, according to Commissioner R. L. Evans.

There are two leagues this season—the Convair League and the Engineering League. There are five teams on the Convair League and 16 entered in the Engineering League.

Convair League players will clash on Tuesday and Friday nights with games starting at 7:30 p.m. and 9 p.m. respectively.

The Engineering League plays on Wednesday and Thursday night but will compete in three games.

Evans says there will be no girls league this season, as only two teams signed up.

CRA Is For YOU-

Get into the act!



ORIENTATION—Joe White, standing left, gives opening briefing to CRA youngsters at Junior Baseball Clinic. White is a director and a scout for the Los Angeles Dodgers. Some 175 youngsters turned out opening day.



THIS WAY — Here White AWARDS — Charles (Chile)

Bigham, left, with the New York Yankee farm system before going to the Milwaukee Braves, awards special T-shirts to the first and 100th boys in the clinic. Receiving the T-shirts are Tommy Croft, son of Tom Croft of employee services, and Rickey Bass, son of M. T. Bass of wage

goes into a special session with one of the youngsters on short stopping. The clinic is for boys 9 through 15 and is under the supervision of the CRA junior baseball activity. (Clinic is full —and no more applications can be accepted.) Sessions are held each Saturday at CRA recreation area.



Junior Horseshow Scheduled April 25 at CRA Ranch Area

preparing for a Junior Horse Show scheduled for 1 p.m. April 25 at the ranch area.

The eight different events are open to CRA ranch activity members only.

A western horsemanship event has been set for those 12 and under and also for those 13 to 18.

Needed for Court

Beginning today Convair Fort Worth people planning to play on the CRA tennis courts must make reservations for courts in advance, the CRA office announced this week.

Reservation slips may be picked up at the CRA office, and courts are being reserved for two hour periods only. There are three courts, one of which is lighted.

Tentative plans have been made for youngsters to have tennis instructions. Details will appear later in Convairiety.

Texas Boys' Choir Will Open April 23

A number of Convair sons stand a chance of getting a trip to Europe if their Texas Boys' Choir Spring Show at Will Rogers auditorium April 23-24 draws enough audience. The boys'

CRA's young horsemen are | There'll be a flag race for the same age groups.

The reining and barrel racing events will be open for everyone in the same category, while the pole bending event will be divided into the same two age groups.

Commissioner Ralph Reade has announced tentative plans for several ranch area activities for the coming months.

A Senior Horse Show has been contatively set for May 16, and CRA Boat Clubbers tentatively set for May 16, and plans have been made for the club to participate in the White Settlement Day Parade.

There'll be an Open Junior Horse Show on June 6. This wil be open to activity members as well as invited riders from the Fort Worth area.

Goolsby Defends His Plant Washer Crown

M. E. Goolsby, washer pitching commissioner, defended his plantwide champion title recently when he took Oliver Cornelson, a second time challenger, with 228 out of a possible 240 points.

Coming in second was W. B. Felts of Dept. 30 with 205. W. M. Pullium of Dept. 27-2 and Rudolph Hromcek of Dept. 14-1 tied for third with scores of 200.

Commissioner Goolsby said the next tournament will be a doubles session sometime in the summer. Just as in the last tourney, merchandise prizes will be awarded.



TOO YOUNG!—Seven-yearold Lowell Holder, son of C. F. Holder of Dept. 27, stands on the outside looking in at the older boys. Young Holder didn't quite meet the 9-year-old age limit, but he's planning to show up when he can.

To Meet April 25

CRA boat club members will gather at the clubhouse tonight at 7:30 p.m. to discuss plans for an April 25 barbecue dinner at the Lake Worth Boat and Ski

Other items on tonight's agenda will be a discussion of boat club officers' duties.

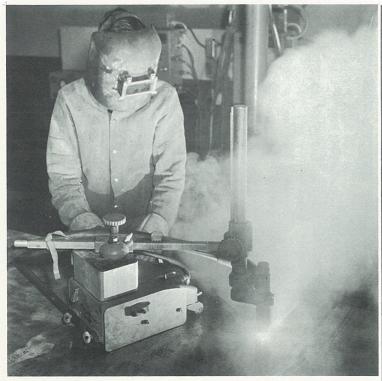
A movie will be shown, and there'll be free coffee and donuts for everyone.

Model Airplanes in Free Flight Test

CRA model airplane enthusiasts will be "up in the air" again Sunday at 1 p.m. at Western Hills (North) when they hold a free flight contest.

The contest is for Class "½A" and Classes "A" and "B" combined using 1959 AMA rules.

A radio control meeting has been set for April 21.



SUPER SPEEDS-Convair Fort Worth's new heliarc cutting torch roughs out an Atlas bulkhead in one and one-half hours. Same process with old equipment took something like eight hours. Torch cutter here is Charles O. Wright of Dept. 30.

New Cutting Machine Expedites Roughing Out Atlas Bulkheads

Installation of a third heliarc cutting machine which can rough ting torch operator, operates the out a 2%-inch aluminum Atlas machine. His uniform for the bulkhead in something like an operation is a special leather hour and a half is now under way at Convair Fort Worth.

Prior to installation of the first the first of the year, the roughing out of an Atlas bulkhead took a full eight-hour day. It had to be done by band and skill saws and milling processes.

"The new machine is a saving in both time and money," said Dave Hoban of manufacturing research.

Hoban and Jay Collins, senior manufacturing research engineer, have been working with the heliarc cutting project.

"In cutting heavier material, there are 75,000 to 80,000 watts "Power passing through the arc actually melts the metal."

Strategic Air Command."

First phase of the rel

Temperature is estimated at approximately 7,000 degrees Fahrenheit.

The new heliarc cutter, which evolved from a welding machine, can chew its way through a three-inch aluminum plate at about 15 inches per minute, through five-eighths-inch metal as fast as 85 inches a minute.

The two installed machines are located in Depts. 30 and 81, Ike Pemberton, general foreman, re-

Use Smallest Doors When Leaving Plant

those on scooters are being asked of our reliability program—espeto use the smallest door possible, cially engineering, customer serv-

With air-conditioning weather just around the corner, the probthe loss of cool air and the influx of warm air. Division Manager Frank Davis recently appealed to all supervision for cotioning system.

Charles O. Wright, profile cutsuit and helmet.

With the heliarc cutter, there is a savings in time on skin \$6,000 heliarc cutting machine at mills. Previously, because of its thickness, the material had to be run through the skin mill before its corners could be cut off. Now there is no need.

On Reliability

(Continued from Page 1) "We'll be gathering data from all manner of sources: the Convair labs, sub-contractors, Convair and Air Force flight test of power at the torch—the power is in the arc," Hoban explained. programs, and finally from the actual operation of B-58s in

First phase of the reliability program falls into four basic tasks, Simpson said.

These are:

1. To set up the reliability requirements of the B-58's various systems and the total weapon

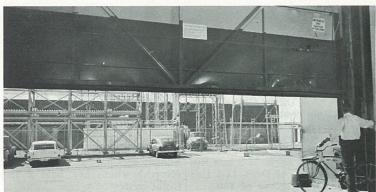
2. To set up procedures to gather information on reliability through tests and B-58 operations, and to set up a procedure to analyze the information.

3. To make B-58 improvements which may be indicated. And-4. To set up firm reliability

specifications for all the systems and the entire weapon system.

"We want to thank everyone in the many departments who Pedestrians, bicycle riders and have already come to the support when going in or out of the plant. ice, and quality control," said

"We'll still need the help of lem is to reduce to a minimum everyone concerned - from the engineer who designs the weapon system all the way to all the people who help carry out the building, developing, and testing operation in holding down the of the B-58. And with that help, demand on the plant air condi- I have no doubt that we will suc-



IT'S COSTLY-Bicycle rider demonstrates what NOT to do by opening 50-foot aisle door to let himself outside main plant. Use of pedestrian door is far less strain on air conditioning—and therefore less expensive.

7th Annual Student **Paper Competition** To Start Tomorrow

Tomorrow is the kickoff for the seventh annual student paper contest being sponsored by Convair Fort Worth and other aircraft companies jointly with the Texas Section of the Institute of Aeronautical Sciences at the Hilton Hotel.

Competition will be going strong through Saturday among graduate and undergraduate students from about 18 major colleges and universities. They'll be vying for some \$1,200 in prize

The competition will start Thursday and Friday at 9 a.m. and run until 5 p.m. There'll be a luncheon both of these days from 12:15 p.m.-2 p.m. with R. H. Widmer, Convair FW chief engineer, as guest speaker on

Saturday will highlight a field trip to Convair, Chance Vought, Bell and Temco, and the awards dinner will be that night at 7:30 p.m. in the Continental Terrace Room of the Hilton.

CLUB'S 'CREATIVITY' PROGRAM EXPECTED TO SPUR NEW IDEAS

(Continued from Page 1) meeting also will be attended by representatives of other National Management Association clubs in

True's theory is that too many people consider creative thinking strictly the province of the genius or the artist. There is a little bit of both in all of us, he contends.

According to him, too many people think in fixed, rigid patterns formed by their education and background. He says that merely by re-



Dr. True

arranging these patterns and experiences, one could come up with new approaches and then new concepts and ideas. After the oneman show

served salad,

broiled ham steak, au gratin potatoes, string beans in butter, apple pie and

Both the program and the luncheon are included in the \$3.50 tickets which are available from officers, members of the board of control and the usual ticket agents.

Altitude and Escape **Key Space Problems Air Medico Asserts**

"Rocket Age Man" will be discussed by Col. John Paul Stapp at the April 16 meeting of the North Texas Section of the American Rocket Society.

The meeting, to be attended by



Worth, will be held at Western Hills Inn on Highway 183. Colonel Stapp

is the society's national president and head of the aero medical lab at Wright Air Development Center. He advised

Jack Kerr, section president, that his talk will bring out the fact that the chief aero medical problems at the present time are extremely high altitude conditions and provision for emergency es-

Convair people—both members and non-members - may obtain information on tickets by contacting Kerr at ext. 2173 or 2183.

CRA operates for YOUR pleasure. Consult the CRA calendar for schedules of your favorite activities.



GOOD EGGS-Mrs. C. W. Allen, of Dept. 6-1, behind wheel, watches as her children and those of Mrs. Lois Tidwell, also Dept. 6-1, take shelter to open sacks of eggs at rained out Easter egg hunt at Convair Fort Worth.

Raindrops Alter Annual Egg Hunt, Easter Bunnies Deliver by Hand

CRA's Easter bunny "laid an egg" at Convair Fort Worth last their sacks cashed them in for month. It rained!

Even though thunderstorms Even though thunderstorms put a damper on the anticipated 4,000 youngster turnout, parents tests, and R. W. Beck of Dept. chauffeured over 1,000 eager small-fries to the CRA area where a determined Easter bunny was at the gate handing over sacks of eggs.

The sacks contained mixtures of hen and candy eggs with an occasional "prize egg" which could be redeemed at the club-

Those with the prize eggs in panda bears, mechanical bunnies and stuffed rabbits.

Roy Jarl and Dave Smith of employee services acted as head of the egg committee and as master of ceremonies respective-

Chief K. Simmons and the men of Convair Fort Worth's Dept. 15-4 were on hand to direct the carloads of youngsters.



ORIENTATION-R. N. Hale of Convair Fort Worth orients a group of 70 Air Force enlisted men during a recent customer training session. This is one of the largest classes of any kind ever to be held on the Fort Worth reservation, according to H. C. Anderson of educational services.

At 80, Fort Worth's Herbert Hamilton Is Still Plant's 'Youngest at Heart'

birthday of one of Convair Fort still manages to find time to get Worth's oldest but "youngest at onto the greens and is still active heart" employees—Herbert Ham- in CRA golf. ilton of Dept. 6-5.

is in the engineering illustrations in a rocking chair." group supervised by Johnie Herbert.

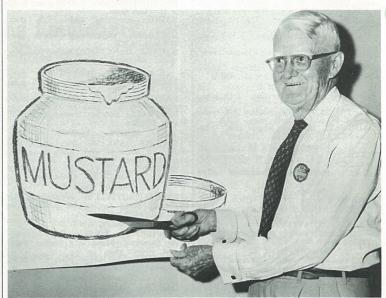
Convair, he had never been absubstantial delegation from sent until a year ago, a pretty sity of Arkansas and the Art Convair Fort good record for anyone.

Yesterday marked the 80th | An ardent golf enthusiast, he

When asked the secret for re-Hamilton, who has worked all maining physically fit, he said, over the United States and in "I've exercised a lot during my Canada as a commercial artist, life. Never have been one to sit

His favorite food is roast beef, and he was a heavy smoker up In his nearly 15 years with until about 15 years ago.

Hamilton attended the Univer-



CUTTING MUSTARD-H. H. (Herbert) Hamilton, who celebrated 80th birthday April 14, shows he's not too old to "cut the mustard." Gag was fixed up with help of Ham's friends in engineering illustrations group.



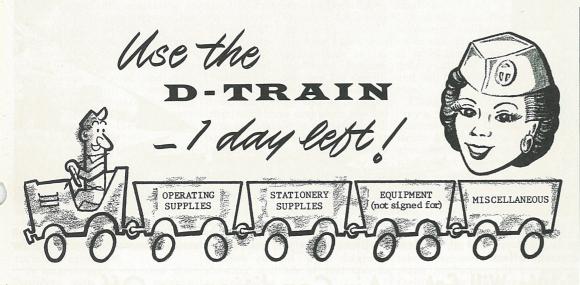
Fort Worth and **Daingerfield**

EDITION

Fort Worth news office: ext. 2961; Daingerfield news office: ext. 424

SAN DIEGO, POMONA, ANTELOPE VALLEY, VANDENBERG AFB, CALIF.

AFMTC, CAPE CANAVERAL, FLA., FORT WORTH, TEX.



'D-Train' Cruises Convair Gathering up Surplus

One more day to get on the labels on it. "de-hoarding" bandwagon! "The D-

And only one more day (since Friday is a holiday at Convair) to get rid of surplus and unwanted items merely by stopping the "D-Train."

The train, bearing flashing lights and brightly colored signs to attract attention, has been cruising the plant and the reservation all week as a special project of traffic department.

It made its first run—just to remind employees that Monday would be D-Day of de-hoarding week—on Friday of last week.

"The D-Train can still pick up your unwanted stuff-if it's not too big—on Thursday," said Budge Lee, de-hoarding campaign chairman.

screen the stuff, pile it alongside

"The D-Train driver will do the rest. You don't even need to call traffic. It'll be taken care of automatically."

Supervisors were once again cautioned NOT to ship on the D-Train any items charged to an employee. These items, if not needed at the moment, should be returned to the proper tool crib for credit.

Besides cruising inside the assembly building, the D-Train also makes one trip each day past the development hangar, flight test hangar, engine test stand and the warehouses.

Lee urged that supervisors, after the D-Train makes its last run Thursday, continue their efforts until all unneeded items are "All supervisors need to do is put back into circulation where they can be of use. After the Done of the aisles named in the Train run, however, all normal memo from traffic a few days procedures will be followed as in ago, and put one of our 'D-Train' the past.

Dept. 27's Mason Is First To Earn ES Cuff Links

account is \$1,061.65 fatter from an ES check.

The cuff links and tie clasp go to any suggester who saves the company \$10,000 or more, according to M. J. Scott of the suggestion section. The award is a part of the recently improved ES the first suggester eligible.

First pair of special Employee | The check for \$1,061.65 was a Suggestion cuff links and tie final payment on a \$21,233 sugclasp to recognize a saving of gestion after a six months' rein-\$10,000 or more are being worn vestigation. Mason received the by F. M. Mason of Convair Fort first \$1,061.65 last October from Worth's Dept. 27. And his bank August C. Esenwein, executive vice president who was then division manager.

T. E. Hoffman, chief of inspection production, turned over Mason's second check in a brief ceremony in his office.

His suggestion was to provide employees who cut fiberglas with and CIP program, and Mason was cutting specifications in order to reduce scrap.



LINKS 'N MONEY-Convair Fort Worth's F. M. Mason, right, of Dept. 27 gets cuff links and tie clasp from T. E. Hoffman, chief of inspection production, for first Employee Suggestion in 1959 to produce over \$10,000 in savings. Hoffman also presents check for \$1,061.65.

Tour B-36 Park

(Picture on Page 8.)

An estimated 4,000 visitors toured B-36 Park and the enshrined Air Force B-36 intercontinental bomber at dedication ceremonies held May 17 at Amon Carter Field.

Visitors for first time were able to climb inside both the forward and aft compartments of the Convair Fort Worth-built plane. They climbed up on steel stairways leading into each compartment. Inside they found the Convair Fort Worth Management Club members had polished everything to a sheen. Neat labels identified many pieces of equipment. The plane is virtually as complete as it was when it was flown from El Paso to land at Carter Field, except that certain located throughout the building. pieces of classified equipment have been removed.

The bomb bay doors were open to give visitors a view of the 80-foot cavern in which a B-36 could carry a devastating load.

A steady stream of visitorsmany of them Convair employees showing their families the inside of the plane for the first timeflowed through the interior from the opening at 2 p.m. until closing at 6 p.m.

Representing Convair at the Junior Achievement brief dedication ceremony was Frank W. Davis, division manager, and other members of management. The Management Club was represented by Lloyd Gant, president; S. E. Keith Jr., chairman of the committee which helped arrange the memorial; Lou Lyte, B. R. Main and others.

The park will be open and Saturday and Sunday. Visits can pany in 1957. arranged on other days for

Daingerfield Post Goes to B. W. Berry

ager of accounting and material at Convair Daingerfield, succeeding the late J. E. Halnan.

Berry joined Convair Fort Worth in 1953 as a cost analyst, later becoming accounting assistant supervisor. He was transferred to Convair Daingerfield as accounting supervisor in 1955.



B. W. Berry

A graduate of Southern Methodist University in youngsters, Ronnie, Dick, Steve and Donna. The Berrys live in Longview, Tex.

B-58 Run Stations, \$3 Million Task, Under Way at FW

Construction on \$3 million worth of sound controlling B-58 production field operation stations is now under way on the south end of Convair Fort Worth's east ramp.

The new B-58 run stations will be permanent structures and will be enclosed by east and west hangar doors.

Purpose of the new project is to provide protection from the weather for people working on the Hustler. It will also reduce sound in the area when engines run, according to M. E. Messersmith, chief plant design engi-

Messersmith said there will be six buildings. Each will house two B-58s, making for 12 enclosed run station buildings. There also will be five open run stations.

In the enclosed run station, jet engines can go up to 85 per cent of power but must be taken to one of the open stations for full power operation.

Sound suppressors for afterburners will be used when engines run in outside stations. This will keep noise to a minimum.

The buildings will have a systemized air conditioning set up. volunteer Convair employees and The mobile trailer air conditioners now used will no longer be needed.

To air condition the supersonic bomber in one of the new stations, it will be necessary only to plug into one of the many air conditioning sockets which will be

Project engineer is L. W. Carlson, who says the first station should be complete around the first of September. The project is scheduled to be finished about the first of the year.

The stations will be 205 by 131 feet. The first 12 feet up from the concrete ramp will be of concrete with steel siding above. Interiors will have sound insulation as will the west hangar doors.

Chairman Appointed

New program chairman for all Convair Fort Worth Management Club-sponsored Junior Achievement companies is T. V. Malloy, cost analyst in Dept. 89-3.

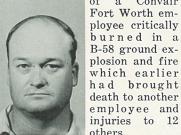
He succeeds M. J. Scott of the suggestion section.

He became active in the Conguides provided by the Manage- vair Junior Achievement program ment Club from 2 to 6 p.m. each shortly after joining the com-

> Scott, who started out as a over the program chairman's job. He will remain active in Tarrant County Junior Achievement as a

Convair Mourns Two Employees

Doctors did everything humanly possible last week-but in vain in their efforts to save the life of a Convair



G. W. Johnston

others. Killed in the flash fire May

ployee critically

burned in a

14 was G. W. Johnston of Dept. 63. Dying May 22 in a Galveston clinic was J. D. Hoy, 6-4, who suffered critical burns.

The fire burst out in a B-58 parked on the flight line alongside Grant's Lane. Ground crews were preparing



flight. Exact cause of the fire is not known. When the fire

the Hustler for

broke out, Convair firemenassisted by Carswell Air Force Base firemen who raced across the field

J. D. Hoy when they saw flames-began quickly rescuing victims.

Employees most seriously injured were rushed to Harris and St. Joseph's hospitals. Employees with serious but lesser injuries were treated in the plant dispensary by Convair physicians.

When Hoy was able to be moved from Harris, the Air Force flew him to the John Sealy Hospital "burn center" at Galveston.

Dr. J. K. Leverett, Convair Fort Worth chief physician, flew to Galveston in Convair's company plane ahead of the hospital special parties by contacting Junior Achievement adviser, was Keith at Convair.

Junior Achievement adviser, was ship to make certain everything a chief adviser before he took was in readiness to receive Hoy on May 18.

Attending Hoy on the plane, which took off from Carswell, (Continued on Page 8)

B. W. Berry is the new manger of accounting and material Fire Victims Speedily Handled Thanks to Emergency System

Emergency procedures estaband the Harris Hospital staff to provide speedy handling of accident victims may well be responsible for the fact that there was only one fatality in the explosion and fire at Convair Fort Worth May 14.

Such is the view of Dr. J. K. Leverett, Convair Fort Worth four chief physician, and Dr. Ted physi Lace, Convair medical consultant.

Both were high in praise of all Dallas, he's married and has four employees who assisted in rescue nurses and Convair and Carswell toward treatment.

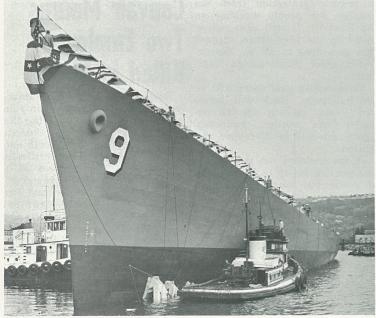
"And special thanks go also to lished four years ago by Convair the corps of doctors and nurses who went on a crash basis at the hospital to give immediate relief and treatment for Convair employees as fast as ambulances could get them to the hospital," he added. Going into action immediately

were four company surgeons, four Harris hospital resident physicians, 20 registered nurses and supporting staff members.

First, a pre-determined special route of entrance into the hospioperations, as well as Convair tal was cleared to speed patients

(Continued on Page 8)





TARTAR SHIP-Launched at Seattle, Wash., last month was the "Towers," destined to be equipped with Tartar missiles, built by Convair at Pomona Division. She is shown going down ways of Todd Shipyards. Another "Charles Adams" class destroyer was launched at about same time at Bay City, Mich. Both are due for late 1960 delivery to Navy.

Dynamics Is Considering Joint Chemical Concern

General Dynamics Corporation Division of General Dynamics and the Philadelphia and Reading | Corporation. Corporation May 11 agreed "in principle" to the organization of a jointly owned corporation for Pottsville, Pa., the only area in

The new company would be known as Dynamics Reading Chemicals, Incorporated and would be the only chemical company in the United States producing chemicals from this type of mining waste. Details of the financing of the proposed organization are not yet worked out.

According to Frank Pace Jr., chairman of the board of General Of Caps, Lapel Pins Dynamics, and Howard A. Newman, president of Philadelphia For B-58 Excellence and Reading, the possibility of a joint venture has been under intensive consideration by both being presented monthly at Concorporations for many months.

formed, it would produce hydrogen ammonia, ammonia nitrate, urea, nitrogen solutions, methanol, calcium carbide, acetylene and vinyl chloride primarily for bulk sales to the chemical industry and allied industries.

Management and sales responsibility would be under the jurisdiction of Rex L. Nicholson,



The boards of directors of president of the Liquid Carbonic

Facilities of Dynamics Reading the purpose of producing chemicals from anthracite mining waste and residues.

this country where anthracite mining waste exists in quantity sufficient for an enterprise of this size.

Manufacturing operations would utilize the Lurgi process, successfully employed for a number of years in Germany. This process promises unique achievements in the petrochemical area

Crews Get Awards

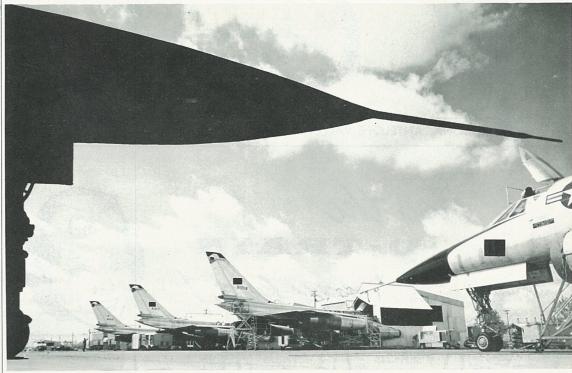
New quality crew awards are vair Fort Worth to B-58 flight If, following certain explorations, the new corporation is are rated "excellent" in maintaining their airplanes.

> The recognition awards are flightline caps and lapel pins bearing the new "B-58 Excellence Emblem," according to R. W. McGuffee, manager of development.

> "Our purpose is to recognize employees who consistently achieve top quality maintenance and to reduce airplane turnaround time between flights," McGuffee said.

> "We feel that this can be done by creating a more tightly knit team effort on each airplane and by promoting friendly competition among crews."

> Each month's quality crews are selected by a committee made up of B. A. Erickson, manager of flight; N. B. Robbins, manager of B-58 flight test program; C. C. Flagg, chief of inspection-modernization, and McGuffee.



SPRING SILHOUETTE—Convair Fort Worth photographer Aaron Murray draws on imagination as he captures nest of Hustlers in afternoon sun and then superimposes silhouette in foreground for dramatic effect.

F-106s Will Get New 'Bobsled' **Ejection Device**

Convair San Diego has been awarded an Air Force contract for incorporation of a newly-perfected ejection seat in its F-106 all-weather jet interceptors, B. F. Coggan, San Diego Division manager and Convair vice president, announced recently.

The \$1,553,449 contract provides for the inclusion of the system, known officially as the 'B" Supersonic Seat Escape System, in F-106s now under production at Convair SD's Plant 2.

Convair SD, first aircraft company to make application of the new seat, headed a 27-month industry-wide effort to develop a safe emergency ejection system.

The system embodies four principles never before combined in pilot escape systems: a toboggan-shaped seat; rocket propulsion; twin telescoping booms to stabilize the seat's trajectory; positioning of the pilot on his back in a feet-first attitude before ejection from the aircraft.

The new system jettisons the aircraft canopy and rockets the pilot and his seat out of the aircraft automatically after movement of only one lever by the pilot. The entire action takes only 1.31 seconds.

Air Conditioners Offer **B-58** 'Constant Climate

conditioners run the year round, as long as any of the aircraft's sub-systems are in operation.

It is imperative that many parts remain at constant temperatures whenever in operation. To perform this task, mobile



AT CONTROLS — Convair Fort Worth's T. L. Wood of Dept. 63 makes proper adjustments on gigantic air conditioner's control board to keep cool air flowing.

Air conditioning has just be- | 50-ton air conditioners, valued at gun for 1959 in the Convair over \$24,000 apiece, are used to Fort Worth plant—but B-58 air keep operative B-58 systems at stable temperatures at all times when systems are being operated on the ground for tests or check-

The air conditioners are about the size of a small trailer. They are painted yellow and have a control board type operation panel that requires a qualified oper-

The panel is covered with high and low temperature pressure gauges, supply air flow and pressure meters, etc.

"It's highly important that the ducts carry cool air into the right areas whenever a system is in operation," commented M. R. Jackson, division material handling coordinator.

Jackson said only recently an expensive part was lost because an air conditioning duct was accidentally sealed off.

The conditioners are a vital part of the Hustler's ground support equipment. They are manufactured by the C. A. Hokanson Co., Inc. of Los Angeles.

Society Announces Scholarship Fund

A scholarship loan fund for SMU and TCU students was announced this week by the Dallas-Fort Worth section of the American Society of Quality Control.

The fund will be available initially to SMU's industrial engineering department and TCU's school of business for the purpose of providing funds to students in the field of quality con-

Fund chairman is Convair Fort Worth's Glen H. Parmeter.

Convair Son Honored As Top ROTC Cadet

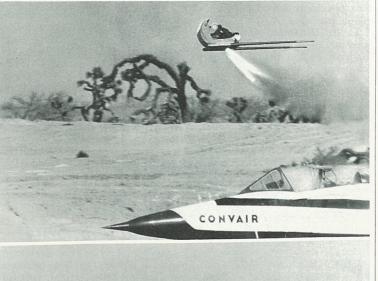
Ernest Miller Jr. (son of Ernest Miller, Convair SD security guard) May 15 received a medal in regimental parade and field day competition at Balboa Stadium as the outstanding firstyear cadet in the Hoover High School ROTC.

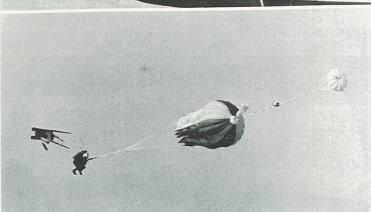
Plastic Bag Danger To Children Noted

Convair safety departments have joined in the current hue and cry to protect small children from death in plastic bags.

More than 20 youngsters have lost their lives from suffocation after crawling inside plastic containers left within their reach, M. C. Val Dez, SD chief safety engineer, reported.

"Families with small children can guard against possible tragedy by diligently keeping the bags out of reach-or better yet, by not keeping them in or near the house at all," he cautioned.





AERIAL BOBSLED-Newly-perfected ejection seat will be used first in Convair F-106 jet interceptors. Upper shot shows rocketpowered seat carried above and away from cockpit with pilot in supine position. In lower photo, small drag chute (at far right) slows seat before deployment of main chute.

Novel Miniatures Constructed at SD To Help in 880 Customer Training

this summer, "students" will be briefed on operation of the 880 jet transport in the classroom with the help of some realistic miniature 880 parts.

Such important assemblies of the Convair jet airliner as the General Electric engine have been duplicated in outward appearance in Convair SD's training aid section of service publications. The quarter-scale plywood and cardboard mockup will be used primarily to demonstrate the stepby-step sequence for disconnecting and replacing the 800 engine in the pod.

As the training progresses, the same engine replica will be used ardess instructors as well as poover and over to demonstrate other points pertaining to the power plant, such as fuel quantity pre-set gauges for refueling, access doors, fire extinguishing containers, etc., Don Maxion, in charge of customer maintenance training, explained.

ism to make it operable is anby the "builders" in the SD train-ing aid shop. The wooden replica been developed for instruction in the actual motions."

lock principle, moving straight up on an articulated hinge to a 180and Bill Polakowski (Dept. 15-6) did the actual construction under direction of Karl Busch.

"Besides its basic use for familiarization of airline representatives, the device will be used to train mechanics and since the 880 door application is unique, it will be a valuable aid in presentations to line service personnel, stewtential customers.'

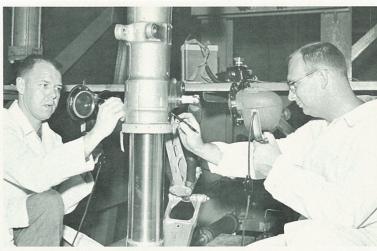
Among other visual aids to be plexiglas transparencies of nose-

When customer service training is covered with plexiglas to make several of the 880's systems. Opclasses start at Convair SD visible the lock action and show erating on a calculator principle, how the door works on a slide- they show component positions during various operating condion a glide track, then swinging tions. A configurator will be used by each student, with a degree angle. Jerry Blumenthal large model for instructor demon-

> A double-size flight engineer's panel also will be used as a class-"The same planning holds true room aid. It is 7-ft. high by 41/2for the 880 mockup door as for tt. wide, made from actual photothe engine," continued Maxion. graphs of the instrument panel and will be used for student refer-

Plans for the training aids are drawn to customer service requirements by George Bain and Bruce Adams of the illustrations group of service publications and worked out in plywood and cardboard to look like the real thing.

"We must make maximum use constructed will be animated of our time with the customer," said L. J. Bordelon, chief of wheel steering, nosewheel hydrau-transport service. "Replicas of lic system, refueling valve, and 880 components from Convair's a full-scale cardboard mockup of training aid section, engineering an 880 cockpit with diagrams test, specimens, and actual air-A quarter-scale entrance door complete with internal mechan- and switches. showing position of instruments plane hardware will be used to facilitate the training, making it "Configurators," based on an simpler to indoctrinate airline other training device just finished idea conceived by Bob Detwiler, representatives in 880 operation



COLOR TESTS-Convair Fort Worth's Carl E. Rucker, left, Dept. 6-7, and Terry Borchardt, Menasco research analyst, check stress on B-58 landing gear by photostress method. Field meter enables them to measure stress by means of colors they see.

Unique Color Process Helps Measure Stress

Convair Fort Worth is engag-| gear, said this new optical strain ing in "technicolor" with a special gauge has many advantages over polaroid application which gives the standard process. With the engineers a new way to measure new method, strain distributions stress in aircraft parts and com- can be seen and evaluated.

Called photostress testing, the new process developed by Tatnall Measuring Systems Co. uses known principles of polarized light to measure stress, according to Carl E. Rucker, test engineer of Dept. 6-7.

For instance, on a B-58 landing gear strut, it works this way: the strut is first covered with a special photostress soft plastic which can be formed to cover any type of regular or irregular sur-

After application, the plastic hardens and is glued to the surface of the object to be stress

Load is then applied to induce stress. As this goes on, an engineer looks through a special polaroid appliance called a field

The polarizers in the field meter enable him to see the rainbow of colors the plastic takes on under differing amounts of stress—and enables him to measure the stress according to the colors which develop.

The engineer can pinpoint those areas which are put under the greatest strain. Engineers can then make certain that those points are strong enough to stand up.

Rucker, who aided Menasco Mfg. Co. in conducting tests at Convair on the B-58 landing

Motoo Takahashi, manager of

aircraft department of Sekiya &

Co., Ltd., Tokyo, Japan, renewed

acquaintance with Convair San

Diego friends last week while

here inspecting the basic 880 jet-

His first visit to Convair SD

was just two years ago, May of

1957, when he was here to re-

ceive instruction on the Convair-

Liner 440 after his company's purchase of two of the trans-

ports. During his recent visit

he was guest of A. P. Higgins,

assistant to division manager-

H. G. Golem Appointed

Howard G. Golem, director of

procurement for Convair, has

been appointed to a two-year

term on the Department of De-

fense Small Business Industry

Advisory Committee, he was no-

tified by Perkins McGuire, assist-

ant secretary of defense for sup-

The advisory committee, com-

To U. S. Committee

military relations.

ply and logistics.

Japanese Aircraft

Executive Visitor

Kuter Will Succeed Partridge in NORAD

field meter.

Gen. Laurence S. Kuter has been named to succeed Gen. Earle E. Partridge as head of the North American Air Defense Command upon Partridge's retirement July

COLORFUL — This is what

black and white camera "saw"

when shooting through polarized

General Kuter, now Commander in Chief, Pacific Air Forces, will be succeeded by Lt. Gen. Emmett O'Donnell Jr., now Deputy Chief of Staff, Personnel, at Hq. USAF.

As NORAD's commander, General Kuter will be responsible for defense against air attack for the North American continent. Key aircraft of NORAD are the Convair-built F-102A all-weather jet interceptors.

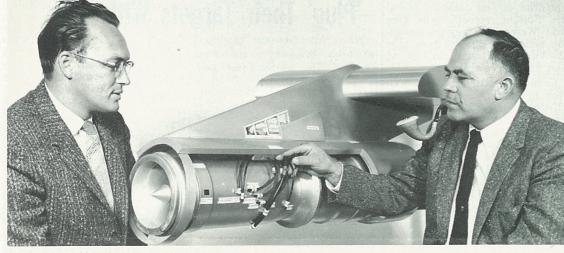
AIA Changes Name To Include 'Space'

The Aircraft Industries Association May 15 changed its name to Aerospace Industries Association to reflect the changing nature of the work being performed

by the industry.
Gen. Orval R. Cook, USAF (ret.), president of A.I.A., said "by our definition, 'aerospace' embraces research, development and production of manned and unmanned vehicles and their supporting equipment for movement above the earth's surface, whether they move within the layer of atmosphere which surrounds our planet or beyond it."



would have sworn that you were trying to bring in something besides



LIFE-LIKE-From left, Don Maxion of Convair SD customer service training and L. J. Bordelon, chief of transport service, examine quarter-scale plywood and cardboard mockup of 880 engine to be used as aid in customer training classes.

Landing Tests Prove 880 Transport Can Stop With Run of Only 2,000 Feet

distances as short as 2,000 feet. of months later.

Plane No. 1 was put through a preliminary evaluation landing the first 880 at Lindbergh Field, performance a couple of weeks the minimum ground run reago to get information needed for corded was 2,000 ft., reported design considerations for the SD engineering flight test. Convair 600 and intercontinental 880. The 600 jet transport is and takeoffs will be done when

Convair SD showed that the 880 fall with the intercontinental 880 AFB some time in July for a sixjet transport is able to stop in following on the line a couple week stay.

In the six landings made by

Further testing in landings

Landing tests held recently at due to go into production this plane No. 1 goes to Edwards

Plane No. 3, second place in the flight test program, is being prepared for the thrust reverser test program. Following that, flight test engineers will be running power plant installation tests and performance and flight characteristic tests as required in support of plane No. 1.

By the second week in July the first 880 is expected to be through the development part of the flight test program and ready to start testing for Federal Aviation Agency requirements.



PRETTY "COLONEL"-Loretta Lodwig, daughter of Opal M. Lodwig, Convair Omaha office secretary, received title of honorary colonel of University of Omaha's Air Force ROTC at an-

B-58 to Get Air Fueling, New Design Nacelles

Base supersonic Hustlers is back navigator, and Capt. H. S. Bialas, home at Convair Fort Worth flight engineer. where development people are After the B-58 touched down modifying it for an Air Force at Convair, R. W. McGuffee, de-

Modification actually got under way when Maj. J. R. Phillips taxied the aircraft to Convair after a brief test flight. Other B-58 Test Force members aboard

CHING CHOKE WHO CAN DENY-NO MATTER HOW OLD WE EACH YEAR WITH INEXPERIENCE? g. U. S. Pat. Off. 1958 by Syndicate Co. Inc

One of the Carswell Air Force included Capt. R. K. Markel,

accelerated service test program. velopment manager, J. E. Ivy, superintendent of development manufacturing and R. W. Dodd, superintendent of development field operations, were on hand to receive it. However, the Hustler was not signed over to Convair.

According to Jack Weir of development liaison, Convair will install newly-designed nacelles, aerial refueling and the ultimate fuel system.

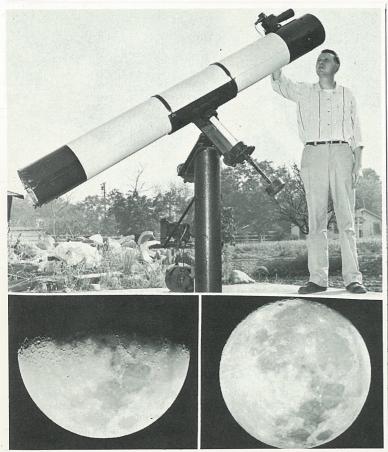
"Engineering, manufacturing and all management coordination and support departments are making a strong effort to complete the work when due," Weir added. "We're to turn the plane back to the Air Force by July."

Convair FW Man Shot Climbing Into Car

M. J. Scott of Convair Fort Worth's suggestion section was in Saint Joseph's Hospital last week recovering from an accidental gunshot wound.

Scott accidentally shot himself in the side with a target pistol.

small business supplier. Golem has been with Convair continuously since 1929, except for a brief period as vice president-manufacturing for a Texas aircraft firm in 1944, and has been director of procurement nual Military Ball recently. since Feb. 1, 1951.



ASTRONOMER-PHOTOGRAPHER—Convair Pomona's Stanley Van Dusen (Dept. 27) is shown with reflective telescope and camera attachment, which he built himself (except for camera case) and with which he photographs stars, planets and constellations. Telescope has six-inch lens, which Van Dusen ground. Below are moon

Pomona Hobbyist 'Space Visitor' Via Telescope Lo These 12 Years

years ago for Convair Pomona's act the movement of the earth. Stanley Van Dusen (Dept. 27), and he has been periodically "visiting" the stars and planets ever since—via a reflecting telescope he built himself.

"At the present time astronomy is about the closest approach to building a space ship and visiting the other planets,' Van Dusen said.

An eighth grade teacher in Bakersfield initially interested Van Dusen in astronomy, and helped him build his first telescope, which had a four-inch mirror.

Later on, while in high school, he built his present telescope. This one, which is now located at his aunt's home in Ontario, has an eight-inch mirror and a clock-type mechanism which

Industry - Education Conference Called

Convair Astronautics and San Diego men will participate in a conference co-sponsored by San Diego Industry-Education Council and San Diego State College next week.

The conference, aimed at stimulating increased productivity of scientists and engineers, will be held June 4-5 on the college

Astronautics men taking active part in panel discussions will be human factors and acoustics.

The "space age" arrived 12 drives the polar axis to counter-

More recently he has become interested in photographing stars and planets, and has devised several methods of taking surprisingly sharp pictures. He has taken photos by placing a film holder of his own design directly over the viewing lens of the 'scope, and he also has a camera which can be attached to this lens. He also has taken pictures directly with a telephoto lens-equipped camera mounted on the telescope.

Some of his best pictures are color shots of Mars, taken when the planet made a close approach in 1957. He has also taken an excellert series of the moon in its different phases, and he has several of Saturn with its "ring" clearly defined.

Van Dusen said that he liked building telescopes equally a. well as using them.

"Grinding and finishing the mirrors is one of the most exacting of hobbies," he said. "The mirror must be so accurate that it cannot be measured with a micrometer. The accuracy must be measured with light.

At present he is building a new telescope with a 10-inch mirror. He does all of his grinding and finishing by hand, and he estimates that a minimum of 45 hours is required to complete George M. Robertson, assistant a mirror. He recently had the chief engineer, administration; J. mirror for his new scope com-W. Getzinger, training specialist; pleted, except for a few finishing and Richard S. Campbell, chief touches-and accidentally dropped of test laboratories. Represent- and broke it. Now he must start ing Convair San Diego will be Dr. all over. He hopes to have the Arnold Small, staff specialist in entire project completed by the end of this year.



"I don't mind tellin' you . . . when I glanced at th' clock and realized you were waiting for me, I had some anxious moments . . .

ROTC Detachment Gets Convair Award

A "Certificate of Esteem" was presented by Convair — along with a scale model of the B-58 Hustler—to the ROTC detachment at TCU this month.

The presentation was made by Malcolm Holloway of the office of the special assistant to the division manager. It was made on the occasion of the ROTC's annual "Decorations Day," which was arranged by Lt. Col. Ardeene E. Sanders, professor of air science at TCU.

Fox Will Be Speaker On SD Electronics

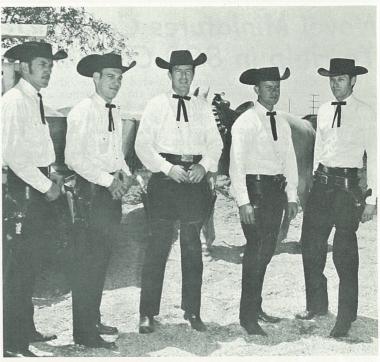
W. W. Fox, chief engineer at Convair SD, will be the principal speaker at a meeting June 4 of the Western Electronic Manufacturers Association in the Tocc Room of the Town and Country

Fox will take "A Look at Electronics in the San Diego Division," following the 6:30 p.m. dinner. Fox's presentation is open to non-members of the WEMA interested in electronics. Reservations can be made with E. T. Clare, ext. 1566, Astro.

SD Naval Reservist Scores Pilot 'First'

Robert W. Henson (SD Dept. 6), commanding officer of a reserve helicopter anti-submarine squadron at Los Alamitos Naval Air Station, recently was the first West Coast reserve squadron helicopter pilot to take part in Atlantic Fleet activities as part of reserve training.

Commander Henson, an engineer in subcontracts at Convair SD, took part in helicopter exercises from the carrier USS Valley Forge, and with a submarine operating with Task Force Alpha in the Atlantic.



DRAW, FRIEND!-Members of "Thumbusters," a fast-draw club in San Diego, put on exhibition at recent Convair SD Horse Show. Convair SD shooters include (at far left) Jim Kuszai, Dept. 230, and (at far right) Ralph McKinsey, Dept. 180. Ken Newman (not shown) of Astro Dept. 775 is also fast-gun artist. All practice constantly and can draw and shoot in less than half-second.

Safe Slingers

'Gunmen' With Half Second Draw 'Plug' Their Targets With Wax

hit town, dressed in the black roll free of leather—all with garb of the professional gunslinger, holstered guns strapped tight to their legs, people are apt to get the impression three 'outlaws" have escaped from a television western.

And, when in a blur of movement, hands flash to holsters, and

When three Convair "cowboys" thumbs cock hammers as pistols speed that bewilders the eyesome spectators may get a little worried.

"Frankly, we create quite a stir, especially among the small-fry," Ken Newman (Dept. 775. Astro) said. Newman, along with Ralph McKinsey (Dept. 180, SD) and Jim Kuszai (Dept. 230, SD) are members of the "Thumbusters," the only fast-draw club in San Diego. They have ap-peared on television, at country fairs, and have had numerous other public appearances.

To keep in shape, they practice as much as two hours a day. All three can "clear leather" and shoot in less than a half-second. Fastest time to date is a draw that took exactly .18 of a second.

"I'm pretty sure we could show up some of the western heroes on TV," Newman says. "With us it's just a hobby, but we take it pretty seriously.

"Our guns are frontier-model Colts (1871), weigh about three pounds, and are perfectly bal-anced. Both the hammer and cylinder are lightened. The trigger pulls so easily the slightest pressure will set it off."

When practicing (and at exhibitions) the gun-slingers use wax bullets or blanks. On occasion they use "live" ammunition.

"But we have to be plenty careful when we do," Newman says. "It's not too unusual for the bullet to end up in your leg or foot. With wax there's no problem, but the doctor bill would get pretty steep with 'live' ammo. As a safeguard we insert a steel deflector plate in back of the hol-

"As for accuracy, we can knock a tin can off a post at ten yards about one out of three





PATROL DUTY—At top is watch tower from which guards can spot anyone approaching FW plant by water. Below is 20-foot shots. That's drawing as fast as outboard used for patrol duty.

Lake Shore Patrol Halts Anglers Who Approach Too Near FW Plant

Boating on scenic Lake Worth | from a nearby outpost-looking | the Convair boat is actually an Worth is considered all work and high cliff. no play for a group of nuclear engineers and industrial security people.

One guard summed it up pretty well to the tune of a standard pop song when he said, "I cover the waterfront."

Since the nuclear area is located near the Lake Worth waterfront, engineers and guards are responsible for patrolling a fenced-in area in the water near the Convair reservation shore line. The engineers patrol by boat, and the guards observe

which adjoins Convair Fort lake tower nestled on a rocky,

E. J. Brunner, nuclear test lab group engineer in charge of patrolling, said this is a safety precaution to keep fishermen, swimmers, skin divers, water skiers and sports boatmen from commented. "The guard can see entering the area.

Taking turns around the clock at the lake observation tower are E. H. Southerlan, C. B. Shotwell, and D. L. Yeager. Southerlan's been there since the post first line. The guards also have a opened.

more expensive inboard vessel, environs of Convair Fort Worth.

economical outboard. It's about 20 feet long, has a small cabin and is equipped with a ship-toshore radio.

"The boat patrols mainly at night," Denny Ross, one of the pretty well during the day.'

To help the guards at night, a searchlight, operated from inside the tower, can cut through the darkness and scan the fence loud speaker system to warn in-Although it resembles a much truders to stay away from the

NEWS FROM OTHER DYNAMICS DIVISIONS

General Dynamics Corporation, created in April, 1952, as successor to Electric Boat Company, is composed of six divisions and a Canadian subsidiary, Canadair, Limited, of Montreal, airframe builders. The divisions are:

Convair, head offices at San Diego, Calif., aircraft, missiles, and space systems.

Electric Boat of Groton, Conn., submarines.

Stromberg-Carlson, of Rochester, N. Y., telecommunications, electronic equipment.

Liquid Carbonic of Chicago, Ill., carbon dioxide producer, industrial and medical gases.

General Atomic of San Diego, Calif., nuclear research, development, production,

Electro Dynamic of Bayonne, N. J., electric motors, generators.

Canadair Ltd. Wins \$70 Million **Contracts For 15 CL-44 Airplanes**

jet-prop long-range CL-44 trans- any United States airline, and the port aircraft, of a unique new cargo airlines in the United

They are Flying Tiger Line Inc., with headquarters in Burbank, Calif., which ordered 10 of the aircraft, and Seaboard & Western Airlines, Inc., of New York, which ordered five. Total cost involved is about \$70 million, including spares. In addition, each airline has taken an option on five more of the airplanes.

The sales of these aircraft are hailed in Canada as a major breakthrough for the Canadian aviation industry. J. Geoffrey Notman, president of Canadair as heavy trucks and missiles.

MONTREAL-Canadair Limit- | Limited, said that "this marks ed, Montreal subsidiary of Gener- the first time that Canadianal Dynamics, has sold fleets of built airplanes have been sold to first orders to be placed by any design, to the two largest all- airline for a long-range turbinepowered air freighter.

"The immediate effect on employment at Canadair," said Notman, "is that some 4,500 people who might otherwise be out of work soon will find continued employment, and there is every indication that we shall have stable employment until at least the middle of 1961."

The CL-44 features a tail section which swings aside to permit easy end-loading of cargo through the rear of the fuselage. This gives it the capability of transporting outsize cargo, such Elias companies were operating



NEW HOME—Consolidated Aircraft set up housekeeping here in 1924. Scene was at Buffalo, N.Y. Note Model T Fords at left. Founder Reuben Fleet was driving one when he first arrived at new plant. He later switched to Stutz Bearcat.

Drawn by Supply of Skilled Labor, Consolidated Moves to Buffalo, N.Y.

(Herewith another installment in Convair's fascinating history that | convertible to water use with a goes back to aviation's early days.)

tract to build 50 PT-1 trainers (Convairiety, April 29) the question Consolidated Aircraft faced was where to build them.

Reuben H. Fleet, who had founded Consolidated in 1923 at East Greenwich, R. I., looked toward Buffalo. A supply of skilled aircraft labor was the determining factor. The Curtiss and there, and a residual labor pool

After winning an Army con-| remained from heavy wartime production. The huge North Elmwood Avenue plant that Curtiss had given up after the war offered room aplenty, and more in view for expansion (floor space covered 37 acres).

Consolidated signed a 10-year lease with the American Terminal Warehouse Corp. on Sept. 22, 1924. It embraced 28,351 square feet, with option to expand if business warranted. (By 1931 Consolidated covered 236,000 square feet.) The rent was 25 cents a foot annually, heat and watchman service provided.

The first to arrive at Buffalo was not a Consolidated man but Lt. James Kelley, the new Air Service representative. (He was destined to join Consolidated in 1929, become a director and serve as World War II factory manager at San Diego. He is still with Convair, serving in General Offices.) The young officer waited several weeks before Fleet drove in from Rhode Island in a Model T Ford coupe.

"I remember the Model T so well, because it wasn't long before the major was driving a Stutz Bearcat," Kelley recalled recently.

Fleet at once set a crew to work unloading the three freight cars that had brought all of Consolidated's equipment, stock and records from East Greenwich.

The PT-1 contract was a novel one. The trainers were to be built in increments of 10, with the first four going immediately to the Army for testing. Any modification desired would be included by the contractor in the next 10, without additional charge. By the time the 34th trainer came off the line, Fleet received telegraphic notice from McCook Field that nothing more was wanted in the way of changes.

The Navy became a Consolieventually bought more than lar to the Army PTs, but were tight joints in welding.

central pontoon and wing tip floats. The Navy employed the air-cooled Wright Whirlwind engine from the beginning. (The first 220 Army trainers had the water-cooled Wright E. Hispano engine.)

"The way to stay in business with the Army and Navy is to give them your best without any holding back," Fleet has said. "Sometimes we gave them what was best before they knew it themselves.'

Unlike the Army, which negotiated successive contracts on the basis of a single design competition, the Navy called for a new competition each time it wanted trainers—even as few as 10. Fleet always entered these competitions personally, shipping a demonstrator plane to Pensacola and flying down a mechanic from Buffalo. Fifteen manufacturers entered the 1925 contest, which brought Consolidated an order for 20 NY-1s.

By the end of 1926 Consolidated could boast that its trainers "have been in the air for more than 30,000 hours, and more than 600 students have received flying training in them. . . To date no student has been killed or even injured severely enough for hospitalization."

In its report to Jane's Aircraft for that year Consolidated stated it had "maintained close personal contact with the operating personnel of both services, observing, analyzing and correcting each service difficulty as it

One of the first difficulties after planes were sold to the Navy was corrosion. Zinc plating that stood up on land planes broke down quickly when exposed to salt water. Adoption of cadmium plating proved the answer. Internal corrosion of structural tubdated customer in 1925 and ing became negligible after a technique was perfected for coat MONTREAL — Canada began 300 planes of the NY-1 and NY-2 ing the inner surface with oil, on-schedule deliveries this month trainer series. These were similation then sealing out the air with



JAUNTY-James L. Kelley, veteran Convair man who was first to arrive when Consolidated moved to Buffalo in 1924, poses in early day Cadillac similar to cars that were on roads in those days. Cadillac is owned by Gerry Wright of SD Dept. 6.



THIS IS CL-44—Canadair's long-range turboprop transport, CL-44, is shown here.

Electric Boat Will Launch First Submarine Of New Class, To Be Armed With Polaris

fleet ballistic missile submarine, the George Washington SSB (N) -598, will be launched here at Electric Boat Division June 9.

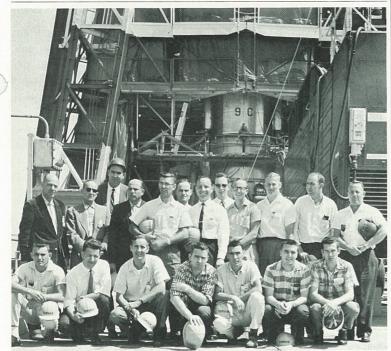
The submarine is the first of an entirely new class designed to fire the intermediate range Polaris missile from either submerged or surface positions.

Christening will be by Mrs. Robert Anderson, wife of the Secretary of the Treasury. Speakers will include Wilfred J. Stromberg-Carlson.

GROTON-The Navy's first | McNeil, Assistant Secretary of Defense; Rear Adm. William F Raborn, head of the Navy's Special Projects Office; and Frank Pace Jr., chairman of the General Dynamics Board of Direct-

STROMBERG-CARLSON MANAGER NAMED

ROCHESTER-Fred P. Ciambrone has been appointed area communications system manager for the Electronics Division of



SPECIAL GUESTS—Among recent visitors at Astronautics facility in Florida was group from Canadair, Ltd., shown with hosts at one of complex areas with missile in background. They were in Florida on missile training program. B. G. MacNabb, far right, Astro base manager, was host.

High-Speed Microfilm Printer Announced

SAN DIEGO-Equipment capable of recording computer output data on microfilm at the rate of 15,000 characters per second has been announced by Stromberg-Carlson at San Diego.

Named the S-C 4020, the compact microfilming unit is capable of plotting 15,000 graph points per second and of drawing axes, projecting grid backgrounds, and printing vectors, eliminating the need for clerks to read from volumes of computer output data in order to plot graphs by hand.

Bomarc Components Shipped by Canada

to the United States of the first items to be produced under the new "defense production sharing" arrangements between the two countries.

Sets of wings and airlerons for Bomarc ground-to-air missiles produced by Canadair Limited under a sub-contract arrangement with Boeing of Seattle, were shipped from Montreal this afternoon. The missiles are for USAF.

Sub Will Be Named After Ethan Allen

GROTON-One of the newest of the Navy's Fleet Ballastic Missile submarines will be named for America's frontier hero, Ethan Allen, who led the Green Mountain boys of Vermont. The submarine, on which construction will start this summer at Groton, is the lead ship of a new class of Fleet Ballistic Missile submarines.

Youth Drama Group Opens

Plans for a summer children's theatre to get under way about mid-June were announced this week by the CRA Wing and Masque activity group.

Convair youngsters from six to 16 years will be eligible to participate, according to Mrs. Lester Randolph, who is directing the program.

The workshop will work on short one act plays and stress self expression for such things as story telling.

Location for the classes has not been decided, but it's likely they'll be taught either at the 2966 Park Hill Drive Playhouse or at the CRA area in the morn-

Helping Mrs. Randolph with the workshop will be Mrs. P. S. van der Vliet

Registration will be limited, so interested parents have been asked to contact the CRA office for further details. Registration is \$3 per person.

Miniature Train Will Start Rolling Soon

CRA's miniature train is scheduled to start running as soon as a locomotive engineer can be found for the midget train.

C. J. Hall, CRA business manager, said he hopes to have the small train into operation by the first of the summer.

FORT WORTH

Promotions to and within supervision, professional and administrative effective May 11:

professional and administrative effective May 11:

Dept. 6: to aerodynamics engineer, D. E. Florence; to design engineer sr., W. G. Benton, R. R. Buell, J. R. Jackson, C. A. Roman; to engineering drawings checker, C. M. Browder; to engineering publications editor, W. J. Felts, C. E. Warren; to engineering writer, N. E. Dunn; to flight test engineer sr., E. E. Denton Jr., W. J. Fuhrmann; to nuclear engineer sr., J. R. Stokes, G. T. Western Jr.; to structures engineer, R. T. Lefebyre; to development liaison man, R. N. Shade; Dept. 8: to manufacturing engineer "A," E. L. Warren; Dept. 11: to supervisor, R. L. Hamilton; Dept. 12: to departmental assistant, J. C. Cox. Dept. 17: to assistant supervisor, D. E. Wall Jr.; Dept. 21: to spares representative, L. T. Woerner; Dept. 22: to production change analyst, H. L. Carter. Dept. 23: to engineering publications editor, M. P. Payne; Dept. 24: to assistant supervisor, S. J. Middleton, T. E. Seale, F. P. Simpson; to tool engineer, A. D. Blue, J. Livingston, H. W. Mayerhoff.
Dept. 27: to liaison man, A. M. Connally, B. D. Faries, H. E. Thompson, R. W. Wright; Dept. 65: to assistant foreman, A. B. Taylor; to foreman, G. W. Edwards Jr.

Awards

The following received Employee Suggestion awards totaling \$1,856.95 for the period ending 7 May:

Dept. 6, W. J. Beattie III, P. E. Dea ver, B. Welborn; Dept. 14, G. Adams Dept. 20, W. Mills; Dept. 22, F. Java

rone.
Dept. 24, E. M. Marion; Dept. 25, L.
L. Cathey, G. R. Smith; Dept. 27, B. R.
Fisher, F. M. Mason; Dept. 28, W. L.

Dept. 30, C. W. Countryman, L. E. Gouge; Dept. 33, R. H. Atkins, W. G. Higgins, B. A. Yandow; Dept. 36, J. H.

Lee.
Dept. 75, W. R. Fisher, H. L. Jordan
Jr.; Dept. 81, D. J. Dominey, A. B. Giesen, B. O. Russell, E. A. Tucker.
Dept. 82, L. K. Lankford Jr., R. M.
Miller, J. E. Wilson.
Also J. E. Lafferty, formerly Dept. 6-6
and C. E. Slakey, formerly Dept. 81.

Ketirements

BLALOCK—J. W., formerly Dept. 25-3. Original hire date Sept. 2, 1942 (FW), retirement effective May 29. 2725 8th Ave., Fort Worth.

Log Book Entries



AUTHENTICITY—Sinclair Baker, left, helps actor Dick Lederer to become more authentic in "Inherit the Wind" drama.

Baker Adds Bits of Realism To 'Inherit the Wind' Play

Wing and Masque theater pa-|evolutionary trials at the June 4 thentic glimpse of the Clarence thanks to Convair Fort Worth's Darrow-William Jennings Bryan Sinclair Baker.

effective May 15. Box 52, Poolville Texas.

HOBBS—C. E., Dept. 25-1. Original hire date Nov. 22, 1949 (FW), retirement effective May 15. 3700 Ave. L, Fort Worth.

Births

FORT WORTH

Deaths

DOGGETT—J. W., Dept. 25, died May 8. Survivors include his wife, 3 sons, his parents and 4 grandchildren.

Personals

Mr. and Mrs. L. W. Hamilton and Randy Dept. 24-1

Hitchhikers

RIDE WANTED—from 4904 El Campo, 8 a.m. shift, call Judy Mears, ext. 2771.

RIDE WANTED — from corner El Campo and Sanguinet, 8 a. m. shift, call Don Waldrop, ext. 2571.

RIDERS WANTED — from Greenbriar Addition (loop 217), 7 a.m. shift, call Raymond Bassham, WA 3-5630.

trons will get a somewhat au- opening of "Inherit the Wind,"

Baker, a former colonel now working in Dept. 6-5, knew the late Darrow personally and has been helping Director Clyde Shrell at rehearsals to inject realism into the play.

"I remember when Clarence Darrow was on a lecture tour through Fort Worth back in the spring of 1933," Baker commented. "He spoke at the old Central High School on why he was

Baker said several clergymen were on hand to give the other side of the proposition.

EMERSON—Steve Michael, boy, 5 lbs. 8 ozs. born May 1 to Mr. and Mrs. Robert W. Emerson, Dept. 6-7. SLAUSON—Barbara Ann, girl, 8 lbs. 14½ ozs. born May 7 to Mr. and Mrs. H. R. Slauson, Dept. 24-1.
PHILLIPS—Michael Earl, boy, 7 lbs. 9 ozs. born May 7 to Mr. and Mrs. Don C. Phillips, Dept. 17-2. He ran into Darrow three years later in Houston and said that even in his old age the Chicago attorney was a remarkable char-BROOKS—David Scott, boy, 7 lbs. 12 ozs. born May 12 to Mr. and Mrs. Brooks, Dept. 81.

"Inherit the Wind," which will run June 4, 5, 6, 11, 12 and 13 at the CRA Playhouse at 2966 Park Hill, is designed to draw its audience into the trial.

A huge cast of Dayton, Tenn., folks gather about the Rhea County Courthouse where the trial takes place. These characters help to create a typically rural atmosphere.

We wish to express our sincere thanks to all of you for your assistance while our son was recovering from illness and injury. Be assured that each of you has our heartfelt thanks, as well as those of Randy. Dick Lederer will play Drummond, Harry Dunlavy will enact Brady and Bill Wilson will portray Rev. Brown. Other players We wish to thank our many friends at Convair for their floral offerings and other kindnesses shown following the death of our son.

Mr. and Mrs. R. J. Norvelle, Dept. 22-1 include Leslie Randolph as Rachel, John Simer as Cates, Vic Patoski as Hornbeck and Bill

The play ran 803 performances on Broadway, but first opened in 1955 at the Margo Jones The-RIDE OR CAR POOL—from 6713 Suc Dr. (Richland Hills), 8 a.m. shift, call Frank Hancock, ext. 2503. RIDE WANTED—from 3913 Lafeyette, 8 a.m. shift, call Ginger Floyd, PE 1-1210. able at the CRA office or from vations call CI 6-1882 or WA 4-RIDE OR RIDERS WANTED—from Irving, Texas, 7 a.m. shift, call Fred Meadows, ext. 3700.

RIDERS WANTED—from North Richland Hills, 7 a.m. shift, call J. V. Campbell, AT 4-5529. **Camera Club Plans Black-White Contest** RIDE WANTED—from 3420 N. Terry, 3:45 shift, call Bobbie Gilmore, ext. 3370.

CRA camera club enthusiasts will have a black and white print contest tonight at 7:30 p.m. at the CRA clubhouse.

The contest will be open for both Class A and Class B photographers.

Publicity chairman Claude Stone said there will be a camera club picnic June 6 at 4 p.m. at CRA and announced a program by the photography class at 7:30 p.m. at CRA on June 10.

Members have been asked to bring along cameras and film for the picnic shooting.

Is It News?

Is it news? Then grab a telephone and call Convairiety

Ushers Needed for B-36 Tour Days

Volunteer ushers are needed at Amon Carter Field for B-36 monument visiting days 2 to 6 p.m. on Saturdays and Sundays, Sam E. Keith, chief of traffic, announced this week.

Those interested in helping out on the weekends have been asked to contact Keith's office at ext. 3228.

Breakfast Club Hears Producer

Convair Fort Worth's Perry King, engineering motion picture supervisor, spoke to the Breakfast Optimist Club of West Fort Worth last week on "Utilization of Motion Pictures in Business and Industry."

King, who at one time had his own production company in California, pointed out that people retain better than 50 per cent of what they see and hear.

He told of Convair's contractual obligation to supply motion picture progress reports on the supersonic B-58 Hustler for the Air Force.

Costs for private business to present messages by way of motion pictures were also discussed.

Richard Mourglia, engineering administrative assistant in Dept. 6-6, introduced King to the group.

Convair's Bob Thompson weight coordinator in Dept. 6-2, was recently elected club presi-

Tom Croft Presides At NIRA Conference

Tom Croft, chief of employee services and president of the National Industrial Recreation Association, is now in Philadelphia presiding at the organization's national conference.

Other Convair Fort Worth representatives attending include C. J. Hall, CRA business manager, and Finn Wahl, president of CRA. O. T. Coburn is also attending the conference.

Recreation organizations from all of the United States, Canada and Mexico are among the 400 delegates participating.

Speed Hurries For \$1,000 Bond

Convair Fort Worth's J. G. Speed of Dept. 4-8 added to his "nest egg" when C. F. Wilkerson of Dept. 4-5 jokingly talked him into buying a \$1,000 savings bond the other day.

"We were just joking around about bonds, and I told Speed that he should put more money into the bond program," commented Wilkerson, Speed's supervisor. "He's been buying a \$25 bond each week since he started here some 11 years ago."

So they marched over to Cashier B. C. Simmons' office, and a \$1,000 bond was in Speed's pocket before Wilkerson could say "Jack Robinson."

What's he planning to do with all of those bonds?

He says he's going to use them to "eat on" when he's in his old

Convair Fort Worth U.S. savings bond campaign was from May 18 through May 22. Employees were given an opportunity to take out bonds by payroll deduction.

The Passing

Fort Worth

The following emblems were due during the period June 1 through June 15.

Twenty-year: Dept. 6, R. H. Widmer, W. D. Halsey.

W. D. Halsey.

Fifteen-year: Dept. 3, D. D. Paschal;
Dept. 4, J. B. Young; Dept. 6, W. E.
Early Jr.; Dept. 9, A. H. Lindsay.

Dept. 21, J. B. Brown; Dept. 22, A. M.
Williams; Dept. 24, S. D. Bozanich, L. C.
Eberhart, G. B. Loving.

Dept. 25, U. S. Orr; Dept. 27, J. R.
McNeely, P. Woodrow; Dept. 29, M. H.
Dean Jr., R. S. Gentry.

Dept. 31, B. W. Jackson, J. B. Moore.

Dept. 31, B. W. Jackson, J. B. Moore, C. Stewart, R. S. Wilkerson; Dept. 36, J. Dominguez, W. H. Foreman.

C. Stewart, K. S. Wilerson; Dept. 30, J. Dominguez, W. H. Foreman.

Dept. 46, C. A. Gustafson, W. M. Joiner; Dept. 54, C. C. Neal; Dept. 58, R. H. Hilliard; Dept. 64, W. L. Goode.

Dept. 65, J. E. Cain; Dept. 75, F. C. Conwell; Dept. 81, E. L. Underwood; Dept. 82, J. H. Almond.

Ten-year: Dept. 4, G. R. McQuinn; Dept. 6, J. T. Casler, A. S. Foreman, D. Lobrecht Jr., I. J. Theriot.

Dept. 14, R. W. Kitchens; Dept. 20, C. H. Duckworth Jr., L. D. Florida, R. L. Graham; Dept. 21, F. E. L. Sellers.

Dept. 22, W. F. Mathis Jr., C. E. Reid, L. D. R. Self, C. B. Young; Dept. 24, M. B. Moore.

Dept. 25, W. D. Andrews, C. F. Coble, E. Hall, W. Mitchell, H. L. Procter, W. A. Wilson; Dept. 27, O. W. Sloan.

Dept. 30, F. G. Hout; Dept. 31, P. H. Moore.

Dept. 30, F. G. Hout; Dept. 31, P. H. Moore; Dept. 32, G. A. Law Jr., F. D. Shaw, J. B. Thomason; Dept. 81, C. Caldwell, A. J. Hayes; Dept. 85, W. V. Keith Jr.

Activities Calendar . . .

Convair Recreation Association events in the next two weeks are listed below. Readers interested may clip this column and save it for reference until next issue of Convairiety. For more information, phone CRA office, ext. 2771 at Fort Worth, ext. 424 at Daingerfield.

Fort Worth

Tonight, May 27 ASTRONOMY: work parties, 7:30 p.m. BRIDGE: duplicate session, 9:30 a.m., CAMERA: black and white contest, CAMERA: black and white contest, 7:30 p.m., CRA.
RANCH ACTIVITY: calf roping, 6-8 p.m., ranch area, CRA.
SOFTBALL: engineering league play, 7 and 9 p.m., CRA.

Thursday, May 28 ARCHERY: shoot, 7-10 p.m., archery ARCHERT: Shoot,
range, CRA.
ART: class, 7-10 p.m., CRA.
BADMINTON: play, 7:30-10 p.m.,
Stripling Jr. High Gym.
RADIO: operating night, 7:30 p.m., RADIO: operating mgm, class, 4:30-5:30 p.m., ranch area, CRA.
SOFTBALL: enginering league play, 7 and 9 p.m., CRA.
SQUARE DANCING: classes: beginners 7 p.m.; advanced 8:15 p.m., CRA.

Friday, May 29 BRIDGE: class, 10 a.m.; duplicate session, 7:45 p.m., CRA.
RANCH ACTIVITY: cutting, 6-7 p.m.; roping, 7-9 p.m., ranch area, CRA.
SOFTBALL: Convair league play, 7 and 9 p.m., CRA.

Saturday, May 30 RANCH ACTIVITY: riding classes, 8 a.m., ranch area, CRA.

Sunday, May 31 RANCH ACTIVITY: cutting, 4-6 p.m., roping, 6-8 p.m., ranch area, CRA.

Monday, June 1 MOVIE: "Away All Boats" with Jeff Chandler. Shown lunch period, 50-foot aisle.

Tuesday, June 2

MODEL AIRPLANE: control line meet-MODEL AIRPLANE: control line meeting, 8 p.m., CRA.
RANCH ACTIVITY: cutting, 6-8 p.m., ranch area, CRA.
SOFTBALL: Convair league play, 7 and 9 p.m., CRA.
STAMP: stamp quiz, 8 p.m., CRA.

TABLE TENNIS: tournament, 7:30 p.m., CRA.

Wednesday, June 3

ASTRONOMY: work parties, 7:30 p.m., CRA. BRIDGE: master point session, 9:30 a.m., CRA.
RANCH ACTIVITY: calf roping, 6-8
p.m., ranch area, CRA.
SOFTBALL: engineering league play,
7 and 9 p.m., CRA.

Thursday, June 4 ARCHERY: shoot, 7-10 p.m., archery ARCHERT: 8,000, 7-10 p.m., archery ange, CRA.
ART: class, 7-10 p.m., CRA.
DRAMA: "Inherit the Wind," 8:15
.m., CRA Playhouse.
RADIO: operating night, 7:30 p.m.,
RA. CRA.
RANCH ACTIVITY: riding class, 4:305:30 p.m., ranch area, CRA.
SOFTBALL: engineering league play, 7
and 9 p.m., CRA.
SQUARE DANCING: classes: beginners,
7 p.m.; advanced, 8:15 p.m., CRA.

Friday, June 5 BRIDGE: class, 10 a.m.; master point session 7:45 p.m., CRA.
DRAMA: "Inherit the Wind," 8:15 p.m., CRA Playhouse.
RANCH ACTIVITY: cutting, 6-7 p.m., roping, 7-9 p.m., ranch area, CRA.
SOFTBALL: Convair league play, 7 and 9 p.m., CRA.

Saturday, June 6

CAMERA: picnic, 4 p.m., CRA. DRAMA: "Inherit the Wind," 8:15 p.m., CRA Playhouse. RANCH ACTIVITY: riding classes, 9 a.m., ranch area, CRA. Sunday, June 7

RANCH ACTIVITY: cutting, 4-6 p.m.; roping, 8-10 p.m., ranch area, CRA.

Monday, June 8
MOVIE: "Battle Hymn" (color) with
Rock Hudson. Shown lunch period, 50foot aisle.
Tuesday, June 9

Tuesday, June 9
COIN CLUB: meeting, 8 p.m., CRA.
RANCH ACTIVITY: cutting, 6-8 p.m.,
ranch area, CRA.
ROCKHOUNDS: meting, 7:45 p.m., CRA.
SOFTBALL: Convair league play, 7 and p.m., CRA. TABLE TENNIS: play, 7:30 p.m., CRA.

Wednesday, June 10 BRIDGE: duplicate session, 9:30 a.m.,

HINES-J. L., Dept. 54. Original hire date January 6, 1943 (FW), retirement

Convairiety

First Place Winner International Council of Industrial Editors

International Council of Industrial Editors

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SD Editorial Offices, Building 32, Plant 1, ext. 1071. Staff: Grayce Fath, Helen Pemberton, Fred Bettinger.

FW Editorial Offices, Col. 73-C, Ext. 2961. Mailing Address: Convairiety, Convair, Fort Worth, Texas. Telephone PE 8-7311. Staff: Bob Vollmer, Fort Worth editor; Pat Baker, Mary Beck.

Astronautics Editorial Offices, Bldg. 2, new plant, ext. 1154. Staff: Bryan Weickersheimmer, Astronautics editor;

Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8, Staff: James Combs Jr., Pomona editor; Dorothy Keller.

Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.

Burks Wins Mr. Convair Title In CRA Physique Competition

competition with other Convair came in second. Fort Worth muscle men.

Burks works out on a spectively in the induceres schedule. By day he's a commercial art student at TCU, and group, and light heavyweight champ was Tom Hammer. third shift in Dept. 75.

Coming in second in the Herculean parade was Richard Carlson. Third place physique winner was Jack Little.

H. L. Carter, weight lifting commissioner, also announced results of the recent plantwide weight lifting contest at which C. W. Doyle acted as master of ceremonies.

Lorry Young took first in the bantam category, with Milton Lowry Jr. coming in second.

Featherweight champ was Billy

Ranch Activity Plans New Show

Plans for CRA's Invitation Horse Show June 20 are being made with B. R. Williams in charge of special events.

Next month's show will have most of the usual events plus western horsemanship and pole bending for the youngsters who have never won a first place trophy at any horse show.

Commissioner Ralph Reade says this will give the non-winners a chance to compete against each other without having to worry about the "experts."

Reade says prospective participants will be able to rent a horse and compete. "Speedy" Cockrell at the ranch area has more details on horse rental.

Ranch activity enthusiasts have been reminded by Reade of the Forest Park Horse Show May 30 and also the Horseshoe Club Show on June 6.

Management Club **Seeks More Bowlers**

Six more bowling teams are needed for the Convair Fort Worth Management Club mixed bowling chairman, announced this

got room for six more and are hoping to get a full 16 teams before getting into league play." he did.

Symm said that the husband and wife bowling teams will get under way in their league play the first week in June.

They're playing on Tuesday the Freeport coast, nights at 6 p.m. at Tavener's ed in that direction. Playdium.

This mixed summer league will be both A. B. C. and W. I. B. C. Interested bowlers call Symm at ext. 2215 or 2156.

Muscular Lawrence Burks now Ludwick, and lightweight winner reigns as Mr .Convair after stiff was Roy Pacheco. Pete Ludwich

Richard Hill and Renne Hughes Burks works out on a tight took first and second places re-

Winner of the middle heavyweight title was Milton Lowry, and Burks (Mr. Convair) latched onto top heavy weight honors.

Head judges for the contest were Howard O'Connell and Jack Hughes. O'Connell is an instructor for Mr. Trim on Camp Bowie. Hughes, former University of Texas track star, held the Southwest Conference Discus record for 12 years.



BIG CATCH-E. S. O'Dell of Convair Fort Worth's Dept. 20-2 stands next to gigantic Warsaw he caught off Freeport.

O'Dell Hooks Mammoth Fish

Convair Fort Worth's E. S. O'Dell of Dept. 20-2 landed a whopper when he brought in a mammoth Warsaw about 56 miles off the Gulf coast near Freeport.

The O'Dells chartered a boat at Freeport and journeyed out some 56 miles into the Gulf before dropping anchor in water approximately 150 feet deep.

"Before I knew it, the monster was on my line," the Convair summer league, G. E. Symm, fisherman explained. "It took me about 25 or 30 minutes to bring him in. I got excited and "We already have 10 full teams just wouldn't let him have ensigned up," he said, "but we've ough line."

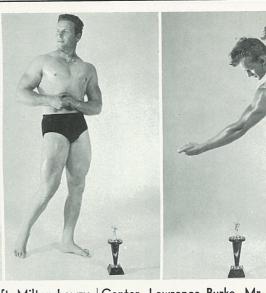
He said his wife also hooked a big one about an hour before

The O'Dells first fished out from Galveston and said they didn't have much luck. they heard they were biting off the Freeport coast, so they head-

O'Dell and his wife said they spent a most "profitable" vacation with the 72 pound dressed Warsaw all tucked away in the deep freeze.



lifting contest, is shown here with his trophy. Carlson, number two man in the contest.



CONVAIR GREEK GODS-Left, Milton Lowry, | Center, Lawrence Burke, Mr. Convair and winner first place winner in the CRA middle heavyweight in the heavyweight lifting contest. Right, Richard

New Dance Class To Start Tomorrow

New square dance classes start tomorrow night at 7 p.m. at the CRA clubhouse, Commissioner Ross Carney announced this

The new class, which will last 10 weeks, is for adults and meets every Thursday from 7-8:15 p.m.

Instructor is John Jones of Arlington.

Carney said that prospective students may pick up registration cards either at the CRA office or at the clubhouse tomorrow night.

He also announced tentative plans for a square dance July 4 celebration.

Winners Announced In Bridge Series

Winners of the CRA six week bridge series were announced this week by Commissioner G. P. An-

First place went to Leta Black. Weltman was second. Gene Black took third.

CRA bridge players have been invited to the weekly Friday night games at the clubhouse starting at 7:45 p.m.

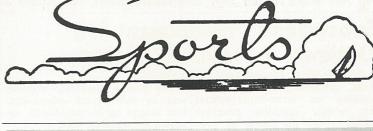
Prior to the Friday night sessions, an informal discussion of duplicate bridge is held especially for new players at 7 p.m. at

Horseshoe Pitching Winners Announced

New doubles plant horseshoe pitching champs are Dept. 30's W. B. Felts and J. L. Winn, Commissioner Finn Wahl announced this week.

Second place winners were W. M. Pullin of Dept. 27-1 and B. V. Partlow of Dept. 59.

C. Reynolds of Dept. 31 and H. R. Jameson of Dept. 46 were third place winners.





TWILIGHT CHAMPS—Pictured here are members of the 850 Twilight Bowling League championship team with their trophies. The team, sponsored by Tropicana Lounge, was led by L. James.

CRA Women's Bowling Teams To Go Into State Playoffs

Two Convair Fort Worth wo- | H. P. Owen, R. K. Rose, E. O. men's bowling teams placed first and second in the city's recent Bowling Proprietors' Bowling Tournament and will head for state playoffs in Houston June 6 and 7.

First place team was made up of Rocky Lee, Betty Frielen, Jean Bavousette, Olga Orrick and Billie Hamilton.

Those on the second team were Jean McIntire, Lil Copeland, Joan Harvey, Guy Hampton and Kitty Goelitz.

The Tiger Lions, captained by J. E. Thomas, took first place bowling honors in the Engineering Test Lab League.

The Tiger Lions won 144 points and lost 96.

Walden, H. M. Price, L. E. Weltman and F. Deleon Jr.

Coming in second were members of the Metallurgy team with 135 points won and 105 points

The Little Joules and the Pickups tied for third spot winning 125 points and losing 115 points.

Thursday's Meeting **Concludes Badminton**

Commissioner H. R. Harrison announced this week that the CRA badminton season ends this Thursday with the last meeting set for the Stripling Junior High Members of the team include School gym from 7:30-10 p.m.

Plantwide Golfing Tournament Opens June 13 at Boaz Green

Convair Fort Worth golfers | tee off June 13 in their annual must have a handicap established CRA plantwide championship tournament to be played on all ment. Handicap strokes will be four of the city's municipal courses.

Deadline for entering is 4:30 flights. p.m. June 8, according to Commissioner L. H. Armstrong.

"From the looks of things, everyone's out to beat plantwide champ J. T. Tyler," Armstrong commented.

First day of the tourney gets under way at Z. Boaz course, and the second game on June 14 will take place at Worth Hills. On June 20, participants will hit the Rockwood greens and finish on scratch. June 21 on the Meadowbrook course.

Armstrong said contestants with CRA prior to the tournaused in determining total scores in both championship and first

First four winners in the championship and first flights will be awarded prizes as well as winner and runnerup in all other

There'll be one match each week, and first round losers will comprise the consolation flights.

Armstrong said scoring in all match play flights will be at

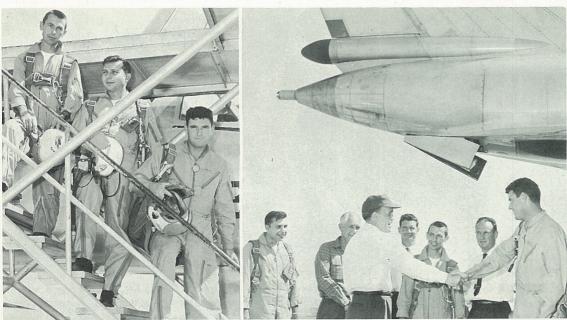
Entry fee is \$2 and can be paid at the CRA office.



PLANNING-Left to right, Commissioner L. H. Armstrong chats with Lester Maxwell, J. T. Tyler and George Young about approaching CRA plantwide tourney which opens June 13.



NEW CHAMP?—J. T. Tyler shows form that won him last year's CRA golf title.



ON SCHEDULE—Left to right, G. C. Tate, V. J. Kane and George Davis pause on steps beside B-58 at end of an on-schedule first flight of Hustler after it rolled off assembly line. At right, Convair Fort Worth's Chick Terry congratulates Davis, who piloted aircraft.

Subsystems Procurement Job **Outlined in Training Program**

Convair Fort Worth's subsys-| ment. tems procurement people are pushing an intra-departmental job related training program which covers all facets of purpartment material adviser. chasing.

The program, designed for all subsystems procurement employees, includes courses ranging from departmental organization and procedures to subcontract administration, cost analysis and

Alldredge, purchasing agent of the communications and

One course completed recently

A course relating to departmental procedures has also been planned for the entire department, Alldredge pointed out.

"Our job of buying B-58 subsystems represents a major undertaking for Convair in the pro-

curement field," Kahn said.
"To insure that we maintain our capability at its present level reconnaissance group, has been and to bring about improvements appointed education and training wherever possible, we have escoordinator by Robert Kahn, tablished this program which covmanager of subsystems procure- ers essentially all our activities.



PROCUREMENT COURSE—Convair Fort Worth's J. B. Alldredge, standing, awards subcontract administration course certificate to T. D. Dean, left, as Robert Kahn and Horace Booth look on. Course was offered as part of Dept. 89's job related training

Two Straight A Fort Worth Students **Chosen for Convair Son Scholarships**

Convair Sons Scholarships went | in physics. Dept. 30.

Johnson, son of G. G. Johnson, of Dept. 6 and Theron Ray Arrington, son of Ford Arrington of Dept. 30.

The awards were presented to the winners by Division Manager grant to that school. Frank W. Davis.

High School and plans to major curricular programs.

last week to sons of Convair Fort
Worth employees in Dept. 6 and
Dept. 30.

Young Arrington, also 17, is a
student at North Side High
School. He'll major in electrical Winners were Stephen Gail engineering at Arlington State.

The Convair scholarships pay full tuition and \$250 a year to each boy. If the institution chosen is not state supported, Convair will also present a \$500

Both Johnson and Arrington The 17-year-old Johnson youth are straight A students at their is a student at Arlington Heights high schools and active in extra-

Fire Victims Given Care Within Minutes Thanks to Convair Emergency Procedure

(Continued from Page 1) Second, a special elevator was set aside for the emergency cases.

Third, special operating rooms were set aside and held ready.

Fourth, the hospital's intensive care unit was made ready prior to arrival of the patients.

Fifth, nurses were notified to remain on standby until the emergency cases were under con-

Sixth, lab facilities, including even saved lives."

X-ray and blood bank, were notified to remain on standby basis.

"This procedure worked so well that all patients had been treated, pain relieved, plasma started, burns dressed—and all patients had cleared the emergency room and were in their beds in less than 45 minutes," said Dr. Le-

"We have no doubt that the speedy handling of these cases saved much pain — and perhaps

Convair Mourns Two Employees

(Continued from Page 1) was Dr. R. S. Guy and a registered nurse, Rita Connally.

The Galveston hospital uses an artificial kidney for treatment of severe burn victims.

Mrs. Hoy flew to Galveston soon after her husband enplaned.

Hoy was a design engineer. Mrs. Hoy is employed in payroll section of general accounting department. Survivors include their children, Vicki, 5, and James, 2.

Johnston's survivors, in addition to Mrs. Johnston, include Darrel, 5; Tommy, 12; Suzanne, 13; and Mrs. Harold Swindell. His parents are Mr. and Mrs. Grady Johnston of Fort Worth.

Others injured were reported last week in satisfactory condi-

Treated at Harris Hospital, in addition to Hoy, were: Dept. 63, B. W. Gresham and T. H. Beal; Dept. 75, J. B. Kaufmann, S. A. Cauthen, J. J. Strittmatter; Dept 74, D. L. Ingram.

Treated first at St. Joseph's Hospital, then transferred to Harris, was R. Gagne, Dept. 75.

Treated in the Convair dispensary were: Dept. 63, H. M. Tindel, W. A. Dunlap, N. B. Crabtree, B. Foley; Dept. 74, W. W.

Club Schedules Noted Speaker

Convair Fort Worth Manage ment Club members will hear Dr. Kenneth McFarland, educational



consultant for General Motors Corp., at their June 24 Ridglea Country Club meeting. Voted "Amer-

ica's Foremost Public Speaker" in a nationwide poll conducted the United States Chamber

Dr. McFarland of Commerce, Dr. McFarland believes that the best way to get certain basic truths over to people is to look them in the eye and tell them.

Dr. McFarland was named America's "Outstanding Salesman" of the year in 1957 and is active in the National Sales Executives' Club.

Club Publication's **Staffmen Honored**

Awards of honor were announced last week for staff members of the "Convair Courier," monthly publication for 3,050 members of Convair FW Management Club.

Lloyd R. Gant, club president, presented certificates on behalf of the board of control to J. P. House, chairman of the club's public relations committee, and Bob Vollmer, editor of Convairiety at FW, who accepted on behalf of all staff members.

Test Force Commander Jones Checked Out in B-58 Hustler

Col. David Jones, Carswell Air | shortly after the aircraft landed. Force Base's B-58 Test Force Commander, was checked out for the first time in a Hustler recently as dozens of Air Force Mach 2 club members and customer service people stood by to offer congratulations.

The colonel was up approximately an hour and a half before touching down on the Carswell landing strip.

Colonel Jones indicated he was impressed with the B-58's performance on his first flight. He praised the training he was provided prior to flight.

Riding with Colonel Jones in the second station was Maj. Jim Zwayer, who navigated the Hust-ler throughout "Operation: Raw Deal" tests in Alaska earlier this year. Third station was manned by T/Sgt. Bobby Ryan.

Two chase planes accompanied the B-58 Test Force commander on his initial check-out. These were piloted by Convair Fort Worth's A. S. (Doc) Witchell Jr., Carswell base manager for customer services, and Maj. K. K. Lewis, veteran B-58 pilot who also participated in "Operation: Raw Deal" as pilot and project

Witchell made Colonel Jones an official member of the ever increasing number of B-58 pilots when he awarded one of the Convair B-58 lapel pins to him after first "check-out."

First to congratulate the colonel was Col. H. J. McIntire, deputy B-58 Test Force commander.

Among others on hand were G. S. (Gus) Green, assistant manager of customer service, and Harry Dunlavy, customer service assistant supervisor.



CONGRATS! — Col. H. J. McIntire, left, deputy B-58 Test Force commander at Carswell AFB, congratulates Col. David Jones, Test Force commander,



CLOSE LOOK - Frank W. Davis (left), Convair FW Division manager, and Sam E. Keith Jr., chief of traffic, welcome visitors for first look inside B-36.



TOP TEACHERS-Division Manager Frank W. Davis, center, awards \$250 checks and B-58 models to six top math and science teachers in Fort Worth on behalf of Convair Fort Worth.



WISE OWL-Wise Owl Club pin and certificate are presented B. R. Mackey, right, of Dept. 46 at Convair Fort Worth by Ray Kendall, general foreman. Mackey holds goggles that saved his eyes when chisel flew out of his hand.



Fort Worth and **Daingerfield**

EDITION

Fort Worth news office: ext. 2961; Daingerfield news

SAN DIEGO, POMONA, ANTELOPE VALLEY, VANDENBERG AFB, CALIF.

AFMTC, CAPE CANAVERAL, FLA., FORT WORTH, TEX.



D-TRAIN PEOPLE—Pictured here in white uniforms are members of Convair Fort Worth's D-Train crew. Examining train's first full load of surplus are members of the De-Hoarding committee.

FW Fire Victims Say 'Thanks to Everyone'

Fire victims of the tragic Convair Fort Worth B-58 ground explosion asked Convairiety from Harris Hospital last week to express their grateful thanks for everything that's been done for them since

the accident.
"I'd like to thank everybody for everything done—especially the people in Dept. 63 who have been so nice," T. H. Beal of Dept. 63 commented.

(Continued on Page 8)

Bond Purchases Raised

Convair Fort Worth employees | are buying bonds at the rate of almost \$8 million a year since close of the successful U.S. Savings Bond drive in May.

Plantwide participation increased from 11,577 payroll deduction buyers to 12,532, or from 57 per cent of all employees to 67 per cent.

New average weekly deduction per bond buyer is \$12.87.

This means purchases are at a rate of almost \$150,000 a week, or almost \$650,000 a month.

Departments with 90 per cent participation or more include these: Dept. 8 and 10 with 92 per cent; Dept. 16 with 93 per cent; and Dept. 28 with 91 per

Second shift topped first shift in participation—70 per cent compared to 66 per cent-to make the plantwide 67 per cent aver-

In addition to new bond buyers and increased deductions on the part of many employees, a total of \$6,035 (maturing value) in bonds were bought with cash.



PAYROLL BONDS—Convair Fort Worth's S. E. G. Hillman, left, Tarrant County payroll savings chairman, and A. D. Leatherman, assistant state director of payroll savings bonds, display poster.

For Engineering Excellence **Professors Get \$1,200 Awards**

professors in recognition of excellence in engineering teaching.

Recipients are Prof. Robert M. Holcomb of Texas A. & M. and Kermit E. Brown, assistant professor at the University of Texas. ergy Commission.

Both teachers received checks for \$1,200. Robert H. Widmer, chief engineer, presented Brown his check, and Herbert W. Hinckley, assistant chief engineer product design, presented Holcomb's check.

Nominations for the awards are made by faculty and engineering students.

Before joining the Texas A. & M. faculty in 1947, Holcomb took his bachelor's and master's degrees from the University of Arizona. His doctor's degree in structural engineering was earned at Iowa State College, His background includes experience at committee from 11 of the counthe radiation laboratory of the University of California.

Brown's undergraduate work was done at Texas A. & M. in their moral character and promechanical and petroleum engineering, and he received his master's degree from the University

Convair Fort Worth has of Texas in 1958. He is now awarded \$2,400 to two college working on his doctor's at Texas. Prior to joining the University

of Texas, he was a petroleum engineer for Stanolind Oil Co., was with Garrett Oil Tools Co., Otis Engineering and the Atomic En-

★ ★ ★ Convair Fort Worth fellowship money to the total of \$4,000 will go soon to four outstanding engineering students seeking graduate degrees.

Winners of the division's annual fellowship grants are Terry L. Babineaux of LSU, Billy Ray Blanchard of Louisiana Polytechnic Institute, Robert J. Cresci of Brooklyn Polytechnic and Joseph V. Noyes of the University of Oklahoma. Each will get \$1,000 each school year.

The four students were selected by the division scholarship try's top graduate level engineers. They were chosen for their academic and leadership abilities, fessional objectives.

J. B. Ellis, industrial relations (Continued on Page 8)

FW Management Club Tickets Go on Sale

Tickets for Dr. Kenneth Mc-Farland's June 24 session with Convair Fort Worth Management Club members are now on sale at usual plant outlets, ticket chairman George Moffat announced this week.

Dr. McFarland, tagged as America's foremost public speaker" in a nationwide United mets, rolls of unused asbestos, States Chamber of Commerce poll, will be guest speaker for the meeting at Ridglea Country

Educational consultant for General Motors Corp., Dr. McFarland will discuss ideas and experiences stationery supplies. picked up during his 24 years as a school executive.

D-Day Program Turns up Vast Stores of 'Loot'

D-Day on May 25 was as victorious as the invasion of Normandy in World War II—and deadly for obsolete and surplus items which have been idle and cluttering the premises at Convair Fort Worth for years.

"Final reports are not yet complete," said de-hoarding administrator Budge Lee of industrial engineering. "But it is agreed by all that our first dehoarding program saved a lot more dollars than the effort cost

A total of 87,660 pounds of items not needed in the departments where they were located were picked up in the week-long run of the D-train operated by traffic department.

The items were delivered to the salvage area, where crews headed by Joe Doggett sorted them. Perishable tools went back to tool service. Other items—aircraft parts, tools, commercial supplies, stationery supplies and equipment—were sent where they'll do the most good.

On perishable tools alone, George Frazier estimated that items which would cost more than \$15,000 to buy new were turned in.

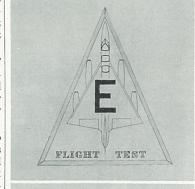
"That just means \$15,000 worth of tools we won't have to buy," commented Frazier. "And that doesn't include the thousands of tools that were turned in to tool cribs by employees at the same time."

Said Lee: "The items employees flushed out in this first de-hoarding effort included many things that had been out of use for a long time - but which had, for one reason or another, not been put

back into circulation. "Our loot included many surplus items which will make it unnecessary for us to buy more of the same."

The D-train picked up practically everything under the sun. Its cargo included welder's helscreen wire, electrical wire, copper tubing, electrical equipment, electric motors, drills and cords, electronic equipment, aircraft parts, test equipment—and several thousand dollars worth of

"Results of de-hoarding are (Continued on Page 8)





FOR EXCELLENCE — B-58 operations crews rated "excellent" will not only get cap emblems (below), but lapel pins, too

'Quality Crew' Pins to Appear

First Convair Fort Worth 'quality crew" caps and lapel pins will appear soon on the crew judged best at servicing and maintaining their B-58 Hustler for flight test.

R. W. McGuffee, development manager, said many members of the crew are now at Holloman Air Force Base at Albuquerque in New Mexico, and the new awards will be presented when they return.

Crew chiefs for the top quality crew include G. W. Stevens, C. B. White and F. T. Williams of Dept. 64.

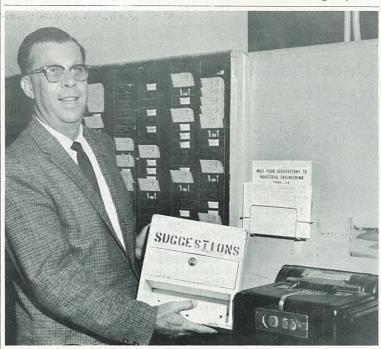
These "quality crews" are selected by a committee of four. The committee is made up of N. B. Robbins, manager of B-58 flight test program; C. C. Flagg, chief of inspection-modernization; B. A. Erickson, manager of flight, and McGuffee.

In addition to caps and pins that will be worn by "quality crews," a special banner will be displayed on the aircraft serviced by the crew.

McClure Re-elected National QC Veep

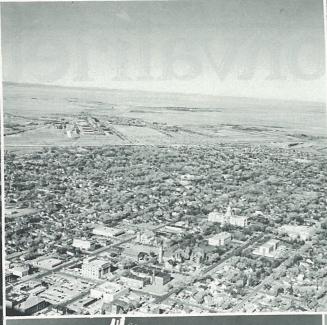
J. Y. McClure of Convair Fort Worth has been re-elected vice president of the American Society for Quality Control at the society's annual meeting in Cleve-

From 1956 to 1958 he was treasurer of the organization and has been a director and executive director of the society. McClure



NEW RACKS-Convair Fort Worth's Ross Carney of suggestion section removes old-type Employee Suggestion box which has been fixture at plant since it first opened. New suggestion rack is above is FW manager of quality con-













NUMBER ONE-First operational Atlas base will be at Cheyenne, Wyo., shown in top center aerial view. Launch sites are under construction at some distance from city. They will be operated by 706th Strategic Missile Wing, located at Warren AFB, one-time cavalry post (top right). Erector-launcher mechanism which will be used is shown in two lower right pictures. Top left, in shadow of state capitol

located at Cheyenne are, from left: T. B. Ragland, staff assistant; George A. Calvert, operations manager; and J. N. Mattson, chief of industrial relations. Lower left, pictured at one of launch sites under construction are, from left: Calvert, Ragland, Mattson, R. W. Mendenhall, S. R. Stager, J. J. Williams, L. Dassoff, E. E.

Horizontal Storage Planned For Atlas at Launch Sites

Atlas missiles will be stored in a horizontal position in launch for the Atlas is based on the facilities now under construction shortest possible time lapse beat widely scattered points around tween the order to fire and ac-Cheyenne, Wyo. The facilities will be manned by Strategic Air Command units with headquarters at Warren AFB.

Convair Astronautics is presently expanding its work forces there for approaching surveil-lance work in construction, equipactual activation of the launch sites.

Visitors to the sites who have seen Atlas test bases will note the absence of giant gantry towers used to hold the Atlas upright for servicing prior to tests. Instead, they will see buildings that seem to fit snugly into the started. surrounding areas of hills and relling plains.

Launching pads at Warren are shaped much like a stubby "T." The long base contains the missile storage area, erector mechanism and other facilities. Across the bar are rooms for mechanical, electrical and propellant transfer equipment, work areas and storage facilities for fuel, liquid oxygen, liquid nitrogen and helium. The launcher centers the bar most a century. with a flame bucket jutting out from the top.

Nearby is what the Air Force calls a launch operations building. Astro employees will recognize it as what has been referred to as a blockhouse.

Missiles are towed into the storage area aboard their handling trailers. The missile's base up nearby as a construction camp is attached to the launch mechanism while a clamp on the 70-foot Pacific. Today it remains a main erector boom fits over the missile in the area of the nose cone. Lifted clear of the trailer, the missile is ready for storage, handy for work, etc.

The roof above the storage area weather and enemy action.

The entire operational concept now required for heavily instrumentated test base launches.

Pressing a single button activates the fully automatic control system for erecting the missile. ment installation, checkout and First, the roof rolls back; the erector boom begins to pivot and pull the missile into position, upright; automatic checkout of various systems gets under way as the missile is rising. By the time the missile is upright, only a short time will be required before fueling operations can be

Total time lapse: less than two

Warren AFB at Cheyenne To Be SAC's First Fully Operational Atlas Base

started a build-up of its work duct support. force at Warren Air Force Base, Wyo. that will continue throughout the remainder of this year.

Warren is the first fully operational base slated to receive the Atlas ICBM as a weapon system.

number just over 100. In the next few weeks some 150 men and women working at other localities such as the Astro home plant and Vandenberg AFB will be shifted to Warren. Additional transfers of skilled workers will follow as needed. At the same time a local hiring program will be pursued to add others.

By late December the Warren force will number over 600.

George A. Calvert, operations manager, directs Warren activities. He reports to C. F. McCabe, The process can be reversed to base activation manager, who, in trial area. In time, others will

The Warren operation is unique in many fields. As the initial the same as those in San Diego. operational unit developed under Astro's base activation program, it will be responsible for formulating and proofing many of the many adjacent areas for residen-Astro forces there presently features to be followed at subsember just over 100. In the quent bases. To this base will up-to-date rental listings for emcome hundreds of officers, non- ployees. commissioned officers and enlisted airmen who have learned their trade in an all-out training program conducted by Astro for the Air Force. These will be the Atlas by working alongside Astro employees in the factory or by handling actual missile parts in classrooms.

> Bulk of the present Astro work force at Warren is housed in what is called the base's induswork in the squadron maintenance area and at the actual launch sites.

The launch sites are under construction at points some distance from the main base.

Communication and transportation between these scattered sites and Astro's administrative offices will become a major prob-

Key supervisory jobs have been filled in the Warren operation. Reporting to Calvert is a line-up of chiefs of various functions including R. W. Mendenhall, J. J. Williams, L. Dassoff, J. N. Mattson, S. R. Stager, T. B. Ragland Large Jr. commands. It is one and E. E. Hixon. The latter is presently acting as top engineering supervisor.

Warren, because of the absence of test operations, will require far less engineering personnel than Astro test base operations.

Most Astro employees will find homes in Cheyenne, just three lation of about 37,500. With the base personnel and outlying areas

Convair Astronautics has | nolds, Astro's manager of pro- | added, Cheyenne has a metropolitan population of about 66,000.

> Rentals in Cheyenne are about At present there are 117 new homes under construction. However, developers are laying out

Cheyenne is 6,062 feet above sea level and lies on the rolling plains that approach the Rocky Mountains, less than 75 miles away. The climate is mild and men who have learned about the dry. Although winter temperatures go into the minus zero ranges, the city boasts of having almost 300 days of sunshine each year, more than Miami Beach,

Before the coming of the missile "era" Cheyenne relied heavily upon railroads (three pass through the town), oil, stock raising and manufacturing for its economy. Tourism is also a major financial contributor.

For the outdoorsman, Wyoming is a natural. There are 20,000 miles of fishing streams and 130,-000 acres of lakes with 83 species of fish, mainly varieties of trout. Big game population is over 200,-000 including elk, moose, bear, deer, bighorn sheep and antelope. Wyoming boasts of an antelope population alone that outnumbers its people!



"This new craze has run me completely out of sacks."

Once Indian Fighter Post, Warren Has Been in Defense For Century

The military reservation that | listic missile. is Warren Air Force Base has been involved in defense for al-

Local citizens boast of its role as a "sentinel of the nation" from "the arrow to the Atlas."

Founded in 1867 as Fort D. A. Russell, the reservation was established as a cavalry post to protect crews building the first trans-continental railroad from hostile Indians. Cheyenne grew and supply center for the Union terminal point for east-west transportation.

Through the years the post served cavalry troops, infantry, field artillery, quartermaster corps, aviation engineers, Air tall, stately red brick structures miles from Warren. slides back on rollers. Closed it Force technical schools and now with white columns. For the most capital of Wyoming with a popuprovides protection from the will be the first fully operational part they face a huge parade base for the intercontinental bal- ground.

In 1930 the name was changed to Francis E. Warren AFB in henor of Wyoming's first territorial governor and later state lem in itself. senator. Warren was also the father-in-law of Gen. John J. Pershing.

The present major occupant of the base is the 706th Strategic Missile Wing, Strategic Air Command. Brig. Gen. William R. of the units of the 15th Air Force.

Warren lies just outside the northwest city limits and just three miles from downtown Cheyenne. It is a remarkable facility in every sense of the word.

Some of the buildings now in use date back to 1885. They are



DESIGNERS—Experts working on interior design of Convair's jet transports, from left, Charles Willits (seated), James Stansfield, and Cliff Dietz of Convair SD furnishings, examine upholstery chosen by one 880 transport customer.

Ex-Auto Designers Join In Creating Jet Interior

industry in the Midwest have on interior appointments to those of other Convair designers to create jet transport interiors.

Approximately 35 years' experiby four men before they came to Convair San Diego as a part of the furnishings section of engi-

Coming from Chrysler was James Stansfield; Dave Maslan from General Motors; Joe Mcand Ralph Meyers, from Stude-

They joined a design group headed by Cliff Dietz who came to San Diego in 1947 as a styling follow-up man. Others now working on interiors for the 880, 600, and intercontinental 880 jet transports are Charles Willits, Bruce Swinford, Will Warriner, Harry Malcolm, and Claire Lynch.

All of the group have either an industrial design, art, or architectural background.

The main difference between interior appointments for automobiles and aircraft is the difference between assembly line, quantity work and custom-made jobs, explained Stansfield. In the automotive industry there is little variance in the interior styling of the different cars and the materials can be purchased in field of automobile design. quantity lots, while in the aircraft industry each customer has the privilege of choosing his own appearance design, colors, and fabrics.

planes. Those lines which will search and development.

A group of industrial designers | use the transports for short hops transplanted from the automotive only need a buffet equipped to handle pre-cooked food, while added their talents and know-how planes designed for long trips will need buffets outfitted for cooking on the plane. Various types of seats are being specified, such as the "siesta" seat, a ence in automotive styling and large reclining type—all making industrial design were piled up a great variance in the interior

> Each customer is allowed to choose its own color scheme, fabrics, and general decor.

Weight, availability over a span of time for replacement, fire resistance, and durability must all Mahon, from Ford Motors Co.; be considered in the choice of materials. Upholstery and carpet fabrics must be custom woven for color and weave.

Special processes have been worked out by the interior design group to provide a particular type of decoration such as the mural scenes which will highlight the vertical partitions in the lounge and cabin of TWA 880s. The art work was executed by Warriner and reproduced in silk screen on the back of a sheet of vinyl which in turn was laminated over a vinyl backing with a sheet of fabric as center layer.

The industrial designers meet a variety of engineering problems - plumbing, sliding pods, movable coat closets used as dividers-all unique to the aircraft business and which, at least up to now, have not entered the

Dr. Bond Addresses **NATO Advice Group**

lines have different needs which week to address the NATO ad-recalling the captain to active accurate way of forecasting maxi-serving as director and helping affect the interior design of the planes. Those lines which will search and development.

Wisory group for aeronautical reduty, long enough to grant his mum wind expected for the next to provide air education for Ante-planes. Those lines which will search and development.

'Convair, California' Card Reaches MSTS

The mail goes through, even when the address is vague and incomplete.

A card, addressed "Convair Aircraft Corp., Missile Divi-sion, General Delivery, Calif., reached the MSTS facility just four days after it was mailed from West Lebanon, Ind. It was written by a Boy Scout, Bob Powell, requesting pictures of the Atlas missile.

Restored B-24 Takes Its Place In AF Museum

A B-24, restored to wartime spit and polish, flew to Wright-Patterson AFB at Dayton last month to enter the Air Force Museum.

Its arrival was a high point of Armed Forces Day observance before a crowd of 62,000 May 17.

A. C. Snyder and C. K. Kurtz, Convair SD field service engineers at Dayton, reported:

"The airplane really created quite a sensation and there was a terrific surge of the crowd to the fence as the airplane taxied to the park . . . It was a real thrill to see the old B-24 . . . It had four of the sweetest, smoothest running engines you ever heard and it was rather sad to hear them shut down and watch the big 'fans' come to rest for the last time."

Although billed as the "last flying B-24," actually there are quite a number of the Convairbuilt wartime bombers flying in various parts of the globe, though virtually all have been modified for cargo or executive purposes.

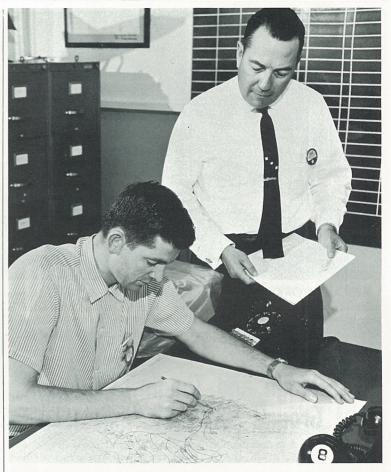
A Dayton Daily News columnist, James E. Fain, was responsible for adding a nostalgic twist to the affair. In a somewhat uncomplimentary column commenting on the "last of the B-24s" he wrote: "The Liberator was anything but an affectionate airplane There weren't many things you actually could blame on the Baker-Two-Four, if you wanted to be fair . . . It was just unsympathetic . . . the kind of mechanism that would go on forever, unending and unyielding . . Like the dinosaur, the B-24 never was much of a pet, anyhow."

In response, James R. Longenecker, captain, USAFR, wrote the editor:
"In flying 26 combat missions

with the Eighth Air Force, I personally developed a great love and affection for (the B-24). Granted that it did not have the stability of the B-17, yet the airfoil which it had for wings was aerodynamically superior to anything of its time. I personally do not recall any serious gripes about the handling of this airplane . . . I mourn its passing very much and would give anything for just one more ride . . May its soul rest in peace."

was read with interest by Maj. algebraic formula involving tem- gasoline and ammunition. brics.

Dr. John Bond Jr., Convair SD Robert L. Bryant, AF museum diperatures, surface pressures and chief of physics, is in Paris this rector, who was instrumental in other data, Johnson devised an with AV Soaring Association,



PREDICTING—Tom Johnson and Paul LaFrenier of Convair Palmdale are continually "behind the 8-ball" at weather bureau that predicts weather for F-102s and F-106s prior to cross-country flights.

Palmdale Weathermen **Outguess Desert Winds**

In Antelope Valley, where sudden desert winds can play havoc portant because it gives advance with aircraft on the ground and warning and enables crews to sein the air, weather forecasting is cure all ground aircraft and to important business.

So Convair Palmdale's flight son and Paul LaFrenier.

Surface weather information reported from nearly 300 stations transmitted via teletype to the Palmdale facility once each hour. From this information Johnson

makes a daily analysis.

Of primary concern at Palmdale are conditions between Palmdale and Kansas City, and Palmdale and Spokane, routes followed on ferry flights of F-102s and F-106s to Richards-Gebaur and Geiger Air Force Bases. Before these jets can take off visibility must be five miles or better and ceiling must be 5,000 feet or better along the flight route. Johnson and LaFrenier give all pilots a weather briefing before take-off.

Similar service is provided for vair Palmdale facility, a station which rates in flight activity with major airline stations.

A major accomplishment of a new system of forecasting six-hour period.

This information is vitally imcancel scheduled flights to avoid possible damage. It is signifidepartment maintains its own cant that Convair has never exweather bureau manned by deprienced any loss at the Palmpartmental assistants Tom John- dale facility due to surprise winds.

Palmdale's flight department is manned at all times that flights throughout the United States is are in operation by either Johnson or LaFrenier. Johnson joined Convair in January of 1956 in his present post. Prior to that he was chief flight superintendent at Los Angeles Airways, where he gained much of his weather experience.

LaFrenier joined Convair in November of 1950 in the San Diego production flight department where he planned overseas deliveries of 240s and 340s. He came to Palmdale in November of 1955 when Rex Warden took over as chief pilot, the position now held by R. E. Myrann.

LaFrenier has a wealth of fascinating background experience ranging from deep sea fishing to the many other out-bound and both military and civilian air in-bound flights from the Conservice. One of his most interesting wartime stints was as a member of the 10 hand-picked crews on "Project 7-A." Their assignment was to bridge the Johnson was his formulation of Burma Road by air in support of Chiang Kai-shek and Chen-Antelope Valley winds, a system nault. Using Convair-built C-87 so reliable that it has been cargo transports, they flew night adopted at nearby Edwards Air and day through monsoons and Captain Longenecker's letter Force Base. Using an elaborate all types of weather to deliver







"LAST OF LIBERATORS"—B-24, restored at Davis-Monthan AFB, Ariz., last fall, was flown to Wright-Patterson AFB at Dayton last month to enter Air Force Museum there. Arrival was part of Armed Forces Day show. At left above it is shown before

restoration. Center is arrival at Dayton. At right is delivery ceremony, from left: T/Sgt. Albert Jones, AF Reserve Capt. J. R. Longenecker, Maj. Max Hadley, Col. A. J. Shower, Maj. Robert L. Bryant, museum director.





RESCUE WORK-Art Thomas (Convair SD Dept. 25) tests two way radio in jeep (at right) and discusses search area with executive officer Darrell McMaster on left. Thomas is commander of ground rescue unit of San Diego Civil Air Patrol, a group which has played prominent role in rescue of downed aviators and lost persons in mountainous area bordering San Diego county.

Seeking a 'Strike'

It's Rough and Tough Traveling, **But Ground Searchers Like It!**

Treacherous mountains in rat- | telephone reaction quickly follows mud and dense underbrush, are all in the day's—or night's—work for a small band of San Diego to save a life.

Led by Art Thomas (Dept. 25 Convair SD), commander, they are members of El Cajon Valley Squadron No. 97, the ground rescue unit of the San Diego Civil squadron starts at the last known Air Patrol.

As such, they form one of the largest units of its kind in the country. Present membership numbers 15, each of whom takes a tough training course that includes advanced first aid, mountain climbing, investigation tactics, search procedure, and monthly familiarization problems in little-known areas in San Diego and outlying countries.

Officially formed as a squadron about one year ago, they have in the past eight months played prominent roles in the search for four downed flyers and a lost child. The most recent was helping in the rescue of an Astronautics man and his wife after their plane crashed a few weeks ago in the Santa Rosa Mountains.

All the men serve voluntarily and are members of the San Diego Ridgerunners, parent organization of the Convair SD CRA Jeep Club. They are on call at all times in an emergency, Thomas said, and have never dropped below 85 per cent participation when called into action.

When first word of an emergency reaches a member, chain

SD Auto Engineers To Visit Shipyard

The San Diego Section of the Society of Automotive Engineers will hold its June 15 meeting in conjunction with a tour of the National Steel Shipyard. The meeting will start at 5 p.m.

S.A.E. plant representatives,

tlesnake country, often through and the group assembles at their headquarters at Gillespie Field. Awaiting them there are 12 jeeps, fully-packed for a three men who gladly face the dangers day expedition into the mountains. All are equipped with firstaid equipment, two-way radios, stretchers, blankets, etc.

A briefing session follows and point where the flyer was seen or if this information is not available, the presumed direction.

When the probable location is reached, the jeeps fan out and a fixed pattern of questions is asked of anyone that might possibly have seen or heard the

When a "strike" is made, jeeps are driven as far as possible into the mountains or canyons, then members continue on foot. Thomas coordinates the operation by radio from the Gillespie Field headquarters. He also keeps in touch with planes and eventually personally joins the search.

"Many times we have yelled all night until our voices became whispers, swung spotlights back and forth, cut paths with bolo knives through dense underbrush, teetered in the black of night on a mountain side or hung from ropes extended into space over the side of a cliff," Thomas said.

"We never give up the search until the person is found or presumed dead."

Members are not paid for their services, in fact they buy and maintain the jeeps together with all the equipment. On occasion they may also lose a day's pay at their regular jobs.

"The feeling that you have helped somebody is our only compensation," Thomas asserts.

"Our ambition is to make the organization a complete rescue any more—just like the vege-operation. To do it we need flyers and aircraft. Openings are George Lemke, ext. 1605, and also available as observers on the



"If I wuz you, I wouldn't loan my end wrench to Bonelli any more ... He makes such a fuss about having to return it!"

Wed 60 Years,

Convair Fort Worth's 80-yearold Dan Longley and his wife, Minnie, celebrated their diamond wedding anniversary recently after 60 years of married life.

"Just stay with it," the Dept. 81 veteran advised when asked the secret of the Longleys' "to-getherness."

Longley, four years older than his wife, married in 1899.

The son of an oil man, Longley worked some 40 years in the drilling business before leaving Ohio for Texas in 1924. Mrs. Longley is a native Pennsyl-

When he came to Convair 16 years ago, he weighed about 150 pounds. Now he tips the scales at 106 but isn't complaining.



ANNIVERSARY—Convair Fort Worth's Dan Longley, 80, left, of Dept. 81 shows assistant foreman C. A. Little picture of his wife. They have been wed 60

"I'm not much of a meat eater

A heavy smoker, Longley started on cigarettes and chew-Clarence Gerber, ext. 2981, can provide additional information. | anyone, it's a tough job." | said he couldn't remember being without one or the other but advised that "it'll kill you if you keep at it, you know.'

When he's not taking care of his 15 great grandchildren, he's usually working in his carpenter shop where he specializes in cabi-

VETERAN OF B-36s **WINS 2,500-HR. PIN**

Capt. James N. McDaniel at Malmstrom AF Base in Montana last week was awarded a 2,500hour pin to recognize his hours of flight in B-36s. He previously had received a 1,000-hour pin.

"I felt at the time that the B-36 was just about the ultimate in a long range bombing plat-form. As a member of Maj. Thad Neal's crew, I flew farther and higher and longer than I had ever flown before—and on one flight had to shave three times before we landed! This was all without refueling, too."

Formula K Craze Hits Texas Where It's Called Go-Karting

weight of his 90-pound go-kart and the red fire truck he drives oil and white gasoline.

Cannon, recently proclaimed indoor go-kart champion of Texas with his 13.9 record set at Will market, too. Rogers Coliseum, has done pretty well for himself since he started go-kart racing only in February. (The tiny machines are known car is a Spyder 500 model. elsewhere as Formula K.)

The Convair fireman built his qualified racers, too!

Go-Kart champ Dennis Cannon own one-cylinder, two-cycle enof Convair Fort Worth's Dept. gine go-kart. He says maximum 15-3 says there's just 42,410 speed is approximately 40 mph pounds difference between the and that he gets about 48 miles to the gallon with the mixture of

Cannon says the tiny cars can be built for \$200 and up and that they're available on the retail

Joe Turner of Dept. 5-4 is another of Convair Fort Worth's go-kart racing enthusiasts. His

Both Cannon and Turner spend "I've always been interested in almost all of their Sunday afterracing," he said. "I competed in noons at Mangham Airport where the Mexican Road Races in 1953- go-kart racing starts around 2 p.m. Both of their wives are



CHAMP GO-KARTER—New indoor "go-kart" champ of Texas is Dennis Cannon, left, of Convair Fort Worth's Dept. 15-3, shown here with Dept. 5-4's Joe Turner.

Years of Night School Pay Off as SD Man Passes Bar While Another Receives Degree

Two Convair SD men are see- is equivalent to 60 units or two ing their labors recognized now full years of college. after a total of nine years of night school study in two San Diego colleges.

Grueling though it was, both agree it was worth it.

Timothy G. Evatt, a contract representative at Rose Canyon, was notified May 25 that he had passed the state bar examination. The notification climaxed four years of night law school at the University of San Diego, where Evatt was graduated in 1958. He received his B.A. degree from St. Michael's College in Winooski Park, Vt., in 1949.

Five years of night school at San Diego Junior College paid off for T. K. Fisher (Dept. 600) this month when he was graduated from the school with an Associate of Arts degree. Fisher is one of the first to receive this degree, which has only recently been offered by the college. It Ind.



REUNION - Mercury Astronaut Capt. Virgil Grissom found schoolmate when he visited AFMTC. He and Nancy Hamilton knew each other in Mitchell,



SIGHTSEEING-Mercury Astronauts, one of whom will be first man in space for free world, were recent visitors to Astronautics operations at AFMTC, Florida. In background is Atlas missile, destined to play important part in their venture into space.

NEWS FROM OTHER DIVISIONS OF GENERAL DYNAMICS CORP.

General Dynamics Corporation, created in April, 1952, as successor to Electric Boat Company, is composed of six divisions and a Canadian subsidiary, Canadair, Limited of Montreal, airframe builders. The divisions are:

Convair, head offices at San Diego, Calif., aircraft, missiles and space systems.

Electric Boat of Groton, Conn., submarines.

Stromberg-Carlson, of Rochester, N. Y., telecommunications, electronic equipment. Liquid Carbonic of Chicago, Ill., carbon dioxide producer, industrial and medical gases. General Atomic of San Diego, Calif., nuclear research, development, production. Electro Dynamic of Bayonne, N. J., electric motors, generators.

DISNEYLAND SUB—Submarines (sponsored by General Dynamics Corporation) slated for Disneyland "ocean" at Anaheim, Calif., are undergoing "builders trials" and "shakedowns."

SSB (N) Washington Expected To Become Fleet Workhorse

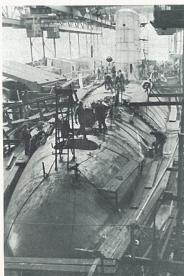
"fleet ballistic missile" submarine, the George Washington, was rine, the George Washington, was launched here yesterday at Elec- fore the record 60-day submerg-

Designated SSB(N)—the B stands for ballistic missile firing and the N for nuclear powered the Washington will be capable of firing the 1,500-mile Polaris missile from either surface or submerged positions.

The Washington is expected to become a "fleet workhorse," constantly on station, and as such will have two crews. They will alternate between duty at sea and

shore training.

The new submarine will be capable of staying at sea for long periods of time and will be able to manufacture its own oxygen supply for lengthy underwater cruises. The machine employs the principle of electrolysis—electric current running through a cellto tear each oxygen atom from the two atoms of hydrogen in every molecule of water.



IN THE WATER—New atompowered submarine George Washington is readied here for launching which took place yesterday at Groton, Conn.

GROTON - The nation's first out enough to add 50 per cent fore the record 60-day submers ence, completely independent of the atmosphere, which the atomic sub Seawolf set last year, could sub Seawolf set last year, the same than the same that the same than be surpassed with ease by the Washington.

The newly appointed Secretary of the Navy, William B. Franke, and Chief of Naval Operations Arleigh A. Burke attended the launching of the George Wash-

Principal speaker at the historic launching was Assistant Secretary of Defense and Comptroller Wilfred J. McNeil.

Electric Boat Man Cited by U.S. Navy GROTON—Eugene P. Pallange

of Electric Boat Division has received a letter of commendation from the Navy for his "invaluable services to the Fleet Ballistic Missile Polaris program.

RAdm. William F. Raborn, Navy Special Projects Director, cited Pallange for his outstanding performance while serving as liaison between the Groton shipyard where the first FBM subs are being built and the Washington office of Special Projects. Raborn credited Pallange with anticipating areas of design and engineering difficulty and working out solutions before they became problems.

CHARACTRON Console To Control Traffic

SAN DIEGO—Delivery of the first S-C 1030 "CHARACTRON Pictorial Conflict Display Console" to General Precision Laboratory, Inc., has been an-

nounced by Stromberg-Carlson. Seven S-C 1030 Display Consoles will be installed in an experimental semi-automatic data processing system for air traffic control now being established by the Federal Aviation Agency.

South America **Lines Consider** 540 Transports

siasm met the Canadair-Convair 540 in the first weeks of its demonstration tour of South America. Countries visited were Peru, Chile, Argentina, Brazil and Venezuela. Airlines showing distinct interest in the airplane include Avianca, Aerolineas Argentinas, REAL and Panair do Brasil.

Airline and military pilots, particularly those familiar with the Convair 240, 340 and 440, were unanimous in commending the 540 for its outstanding climb performance, high cruise speed and easy handling when flying on one engine.

MONTREAL—Pacific Western Airlines, third largest carrier in Canada, has been taking a long hard look at the Canadair-Convair 540 demonstrator airplane now nearing the end of its North American tour.

Numerous evaluation flights and route trials have been made from the PWA base at Edmonton to Fort McMurray, Fort Smith, ellowknife, Fort Resolution, Embarass and Peace River and from the Vancouver PWA base to Victoria, Comox, Port Hardy and Prince George.

The airline operates scheduled and non-scheduled services throughout British Colombia, Alberta, the Yukon, the Northwest Territories and Alaska. It is also prime contractor for the air lift to defense installations in the

Gets Nuclear Work

ROCHESTER-A contract to build the nuclear instrumentation and safety systems and intercomnaunication equipment for the U. S. Army's first skid-mounted nuclear power reactor has been awarded to Stromberg-Carlson.

The reactor will be constructed by Alco Products, Inc., of Schenectady, under contract with the Army Corps of Engineers. Alco awarded the instrumentation contract to Stromberg-Carlson.

Designed especially for service in Arctic regions, the reactor will be built in a number of packages that can be easily transported and quickly assembled.

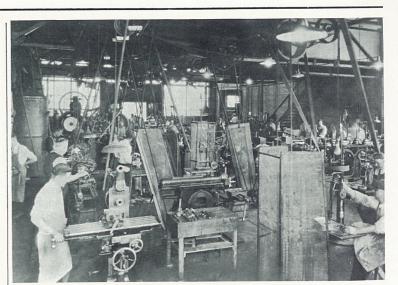
New Missile Division Created by Canadair

MONTREAL-Robert D. Richmond, formerly chief engineer of special weapons for Canadair, has been named a vice president and will have charge of a new missiles and systems division.

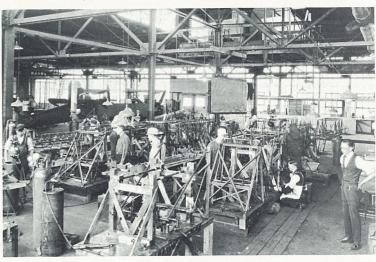
The move was interpreted as reflecting Canadair's determination to become a major sub-contractor for United States missile



"Now Hutton has a follow through."



A FAR CRY—This was machine shop at Consolidated's plant in Buffalo as it appeared in 1925. Below, another factory scene.



Competition Encouraged In Convair's Early Days

(This is the 10th installment in a continuing history of Convair. Previous installments have traced early beginnings as far back as 1908 which led to creation of Consolidated Aircraft in 1923, its move to Buffalo in 1924 where main product was trainer airplanes.)

Col. Virginius Clark resigned | dated's planes had declined steadas vice president and chief engineer of Consolidated in August, 1927. George Newman Sr., who had been a director and general manager since the beginning, was elected vice president. Clark's place on the board was filled by Ray P. Whitman, a former proj-ect engineer at McCook Field, who had joined Consolidated as chief inspector in 1925. (He would serve as vice president from 1931 to 1935, then help form a new company.) Joseph M. Gwinn Jr. a Gallaudet engineer who had continued with Consolidated, was placed in charge of Unit 1 (trainer planes).

Fleet established Unit 2 (heavy planes) the same year, and eventually had four divisions at Buffalo, each under an engineer who reported only to him. The title of "chief engineer" was not used again until the mid-30s, though this displeased the Air Corps.

"I am a strong believer in competition, not only among companies but within my own organization," Fleet explained to his critics at Dayton. "My system induces each project engineer to make his best showing for the boss, not just another engineer. If you've got any complaints, come to me."

Fleet believed key personnel should own a small interest in the company, thus sharing its successes and failures. In 1925 he bought half of his sister's history requires correction of two stock holdings (originally 40 per points: cent) and offered these shares equally to Clark and Newman, on credit. If either man left the company later, he was to surrender his holdings at what was then book value. At first neither accepted the offer. Later Clark bought a 6 per cent interest (15 shares) for \$3,500, giving Fleet his note for that amount. Consolidated's business grew so swiftly that when Clark resigned two years later, Fleet paid him \$125,000 for these shares.

The Air Corps Act of 1926 marked a turning point for military aviation. It set up a fiveyear purchasing program for both services.

The Army's initial appropriamore trainers, depending upon cost. (The price for Consoli-

ily as output increased—from \$9,800 for the first PTs to \$7,750 in the fall of 1926, and further reductions were projected.)

Fleet proposed to Maj. Gen. Mason Patrick, the Air Corps chief, that a single contract for 150 trainers be negotiated. This would permit Consolidated to order material in quantity without. letups, and share the savings from mass production with the Air Corps. Patrick would make no commitment beyond an order

Fleet gambled on his own judgment-"I knew nobody had a better trainer, and nobody could design a better one."

He ordered steel tubing, spruce and other materials for 250 aircraft and kept the production line humming. The orders kept coming in, from the Army at intervals of 60 and 90 days (until its contracts totaled 170 planes) and from the Navy (which continued holding competitions that Consolidated always won). By the middle of 1927 Consolidated showed a cumulative profit of \$867,000 on the service trainers it had built since 1923.

Correction for Convair Record

For the record, Convairiety's May 27 installment of Convair's

James L. Kelley, the Air Service representative assigned to Consolidated Aircraft when the company moved to Buffalo, was acting in a civilian capacity at that time. He was, however, a captain in the Air Service Reserve, on inactive duty. During World War II Kelley was San Diego Division manager, rather than factory manager, a post held then by Bert Bowling.

Kelley arrived at Buffalo considerably in advance of Consolidated's actual move. Felix J. Rossoll believes he was the first Consolidated man at the new plant and recalls hiring eight men to unload the three freight cars that carried the new company's equiption would let it purchase 150 or ment and materials. Previously,

Rossoll is still with Convair.

Ringo and 'Spurs' Score Top **Honors in CofC Member Drive**

in rounding up new members for obtained by all teams. the Fort Worth Chamber of Commerce.

J. F. Ringo, team leader, and other members of the team were recognized for their efforts at a June 3 report rally which concluded the chamber's intensive one-day drive.

The 18 members of the Convair team, all employees in industrial facilities and industrial engineer-

Hayes, Lance Will **Head Weight Group**

Convair Fort Worth's Cantrell Hayes and T. K. Lance of Dept. 6-2 will be installed as chairman and vice chairman respectively of the Texas chapter of the Society of Aeronautical Weight Engineers tonight at a meeting in the Hilton Hotel.

Three Convair weight engineers retiring from office tonight will be J. F. Mandl, W. W. Hill and P. H. Deam.

Dr. Saul B. Sells, professor of psychology at TCU, will be guest speaker at the meeting, which starts at 7 p.m. Dr. Sell will talk on "Human Factors in Space

"Mourglia the Mystic" will also be on the program.

For the second year, the Con-|ing departments, signed up alvair "Spurrers" took first place most half the total memberships rers" tallied 101 of the total of 206.

Chamber officials said the drive was the most successful in history of the organization, and gave the Convair men credit for doing biggest part of the job.

Team members, in addition to Ringo, are: Ross Carney, J. E. Gilleland Jr., Budge Lee, O. Magnusson, W. E. Ahola, H. W. Blackmon, A. F. Gough, B. Q.

H. P. Grogan Jr., J. T. Jenkins Jr., W. H. Johnston, R. F. Knepper Jr., C. F. McClure, B. L. Murphy Jr., T. E. Roberson Jr., F. W. Sloan, W. R. Wilson.

For Drama Workshop

Additional youngsters are needed to assure the summer children's theater the CRA Wing and Masque group is prepared to offer.

Convair youngsters from 6 to 16 are eligible. Interested parents may obtain further information from the CRA office, ext. 2771. Registration is \$3 per person.



DAINGERFIELD BARBECUE-At top left, M. J. Davis, B. B. Finnell, C. L. Dalton, E. O. McDonald, C. E. Roberson and O. L. Holland, of serving committee, pause from duties to take a few bites. Top right, Ann Childree, left, daughter of H. T. Childree, and Sarah Hare make sure sun doesn't scorch. Bottom right, J. E. Arnolds, foreground, get an extra helping of beans. Arnold is division manager at Daingerfield. Bottom left, W. H. Robinson plays clown with group of Convair Daingerfield youngsters. He also gave out balloons.

Log Book Entries

Promotions

FORT WORTH

Promotions to and within supervision, professional and administrative effective May 25:

protessional and administrative effective May 25:

Dept. 4: to production change analyst, R. L. Sitton; Dept. 6: to design engineer, J. H. Haithcock, J. H. Kilgore Jr.; to design engineer sr., H. J. Durham, F. J. Kutzler, J. L. Mayers, D. L. Miller; to engineering illustrator, B. McDaniel; to nuclear test lab group engineer, B. D. Dodd; to project flight test engineer, H. R. Darby; to project nuclear engineer, C. F. Johnson; to project propulsion engineer sr., G. D. Palmer.

Dept. 8: to manufacturing engineer A, R. E. Fitch; Dept. 11: to chief of contract administration — MX-1964 program, D. W. Johnson; to manager of contracts, W. T. Alvis.

Dept. 23: to manufacturing research engineer.

W. Johnson; to manager of contracts,
W. T. Alvis.
Dept. 23: to manufacturing research engineer sr., R. Thompson; Dept. 24: to
tooling analyst, W. H. Stricklin; Dept.
27: to liaison man, R. L. Pollock, R.
Scalzitti, J. K. Spencer, E. F. Thornton,
D. E. Wall.
Dept. 28: to metallurgist senior, E. O.
Burkhart, G. L. Peterman; Dept. 32: to
foreman, O. J. Olsen; Dept. 34: to assistant foreman, E. A. Hoffman.
Dept. 85: to aircraft maintenance specialist, J. L. Cooper, M. L. Farris, S. A.
Means, T. H. Reed; to customer service
engineer, C. L. Davis Jr.; Dept. 91: to
general foreman, O. I. Jones.

Awards

The following received Employee Suggestion awards totaling \$1,836.55 for the period ending 15 May:

Dept. 4, W. E. Doom, W. E. Meacham, F. L. Partin Jr.; Dept. 6, H. D. Livingston; Dept. 22, L. D. Murphy; Dept. 25, T. W. Eakin, E. Evans.

Dept. 27, G. T. Teague; Dept. 30, E. D. Patton; Dept. 33, J. L. Gauntt, R. D. Stinson; Dept. 35, J. Jones; Dept. 36, F. R. Harvison.

Dept. 46, H. E. Cook; Dept. 56, L. B. Sanders; Dept. 74, H. T. Boswell; Dept. 81, B. E. Hudnall, H. A. Lancaster.

Dept. 82, E. A. Beckwith, A. E. Farris. Also D. Ball Jr., formerly of Dept. 35.

Retirements

VANDERFORD—H. T., formerly Dept. 58. Original hire date March 8, 1943 (FW), retirement effective June 1. 8328 Raymond Ave., Fort Worth.

Births

CASLER-Mitchell Vaughn, boy, 6 lbs. 11 ozs. born May 20 to Mr. and Mrs. B. V. Casler, Dept. 6-7.

COVINGTON—Jeri Lynn, girl, 7 lbs. 15 ozs. born May 14 to Mr. and Mrs. J. R. Covington, Dept. 17-2.

Deaths

CARROLL—L. J., Dept. 20, died May 25. Survivors include his wife, 2 daughters and one grandchild.

McLEOD—E. H., Dept. 20, died May 31. Survivors include one son.

SEABOLT—J. A., Dept. 25, died May 29. Survivors include his wife, 2 sons, 2 daughters and his parents.

Personals

We acknowledge with sincere appreciation the kind expressions of sympathy and contributions by Convair employees upon the recent loss of our loved one, James Wesley Doggett.

Family of James Wesley Doggett

Thanks so very much to each of you for your kindness and thoughtfulness in the tragic death of our loved one and your fellow worker, J. D. Hoy, Jr.

Mrs. Hoy, Vicki, and Jimmy

I would like to express my thanks to all the Convair employees who have been so thoughtful during my illness. Ruth L. Root, Dept. 22-8

Hitchhikers

RIDERS WANTED — from Browning Heights Area, 7 a.m. shift, call C. R. Loveday, TE 8-6511 or TE 1-1902.

RIDERS WANTED—from 4109 Ave. N. a.m. shift, call C. E. Smith, JE 6-2707. RIDE WANTED — from 4300 Waits (Seminary Hill), 8 a.m. shift, call J. McFall, WA 7-7116.

RIDE OR CAR POOL—from 816 Scenic Dr. (Riverside), 8 a.m. shift, call W. I. Streiff, TE 4-2933.

RIDE WANTED—from 3701 Wyndale Ct. (Trail Lake Dr.), 8 a.m. shift, call Maxine Woody, ext. 3625.

RIDE WANTED — from 1031 Usher (Benbrook), 7 a.m. shift, call Shirley McCauley, ext. 2318.

RIDE WANTED—from 3870 Oscar (Jarvis Heights), 7 a.m. shift, call H. O. Davis, MA 6-7353. RIDE WANTED—from 3621 Donalee t., 7 a.m. shift, call J. J. Blair, ext.

RIDE WANTED—from 940 Vaquero (White Settlement), 8 a.m. shift, call Marianne Bornheim, ext. 3174.

RIDE OR CAR POOL—from 4929 Terrace Trail (N. Beverly Hills), 8 a.m. shift, call C. E. Williams, MA 5-1406.

RIDE WANTED—from 4900 block El Campo (off Camp Bowie), 7 a.m. shift (south lot parking), call Darnell, ext.

RIDE WANTED—from 5003 Birchman, 8 a.m. shift, call Bobby Jolley, ext. 2422.
RIDE WANTED — from Morningside Addition, 8 a.m. shift, call Shirley Macon, ext. 2812.

Convairiety

First Place Winner International Council of Industrial Editors

Founded Sept. 1, 1948. Published in six editions (Fort Worth-Daingerfield, San Diego, Pomona, Astronautics, Mail Edition and Antelope Valley-Holloman) by Convair Industrial Relations, General Offices, San Diego, Calif., Logan Jenkins, editor.

Approximate current total circulation, over 65,000. News items and letters to the editor are solicited, but no advertising can be accepted.

SD Editorial Offices, Building 32, Plant 1, ext. 1071. Staff: Grayce Fath, Helen aberton, Fred Bettinger.

Femberton, Fred Bettinger.

FW Editorial Offices, Col. 73-C, Ext. 2961. Mailing Address: Convairiety, Convair, Fort Worth, Texas. Telephone PE 8-7311. Staff: Bob Vollmer, Fort Worth editor; Pat Baker, Mary Beck.

Astronautics Editorial Offices, Bldg. 2, new plant, ext. 1154. Staff: Bryan Weickersheimmer, Astronautics editor.

Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8, Staff: James Combs Jr., Pomona editor; Dorothy Keller.

Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.

Convair Daingerfield Annual Barbecue Attracts Record 500 Families to CRA Picnic Grounds Five hundred Convair Dainger- | ton, E. O. McDonald, C. E. Rob- | everyone from the cradle gang

field people turned out for the annual CRA barbecue held at the recreation a rea on Lone Star Lake, according to chairman L.

Highlight of the event was a A serving committee of M. J. game session headed by Jim Naz-Davis, B. B. Finnell, C. L. Dal- zal. Games were designed for

to the pre-school small fry and oldster bracket.

Clowning again this year was W. H. Robinson, who passed out an endless supply of balloons to all youngsters 18 years and un-

Nazzal also arranged a contest for the largest family present. The John Jeters came in first with Jayne, Jack, Jerald, Donald, Jimmy, Theresa and John III to their credit.

Various CRA activities such as the rifle and pistol club and the model airplane club had exhibits on display throughout the day.

After a day filled with games, swimming, boating and over-all relaxation, Bell, also square dance commissioner, directed a square dance.

Convair Actors Now Performing At Fort Worth's Casa Manana Two Convair Fort Worth ac- | Swint of tooling's planning con-

Fort Worth's Casa Manana.

They are Doris Franklin of the cashier's office and Erwin





Erwin Swint

tors are currently being seen in trol. Miss Franklin is portraying Violet, a worldly inhabitant sical comedy of the summer at of Greenwich Village, and Swint plays one of her visitors. He's also doubling as an Italian chef. Both are seasoned in theater

work, having performed with Wing and Masque Players, Fort Worth's Community Theater and TCU Theater. Miss Franklin, remembered in

her last role in "Speaking of Murder" at CRA Playhouse, has to her credit at Community such plays as "Will Success Spoil Rock Hunter," "The Heiress," "The Remarkable Mr. Pennypacker," "The Mad Woman of Chillot," and "The Women."

"The Mad Woman of Chillot," and "The Women."

She played in "Seven Year Itch," "The Bad Seed," and "Roomful of Roses" out at TCU and "Bell, Book and Candle" for Live Theater Productions.

Convair theater goers will remember Swint as tight-fisted Horace Vandergelder in Wing and Masque's "The Matchmaker." His latest Community role was as an Army general in "Visit to a Small Planet."

Other Community parts to Swint's credit include "Stalag 17," "Oh Man, Oh Women," "Anastasia," "Will Success Spoil Rock Hunter," "Philadelphia Story," and "Mr. Roberts." He's also been in "The Mad Woman of Chillot," "The Lark," and "Hay Fever."

His TCU plays have been "Springtime for Henry," "Teahouse of the August Moon" and "Seven Year Itch."

Both Miss Franklin and Swint are working under direction of Michael Pollock, director of this summer's Casa Manana musicals.

Michael Pollock, director of this summer's Casa Manana musicals.

The Passing

Fort Worth

oblems were due during the period June 15 through June 30:

Daingerfield

Ten-year: Dept. 2, J. A. Cawthon.

Garden Show Winners Named

Approximately 70 ribbons were handed CRA garden club people at their recent "Miracles of the B-58" flower show.

Artistic division winners included Mrs. C. W. Thelan, who won the tricolor award for an arrangement of fresh plant material. Mrs. W. M. Counts took the award of distinction for her exhibit of dried, cured and treated plant material.

R. E. French won the award of merit in the horticulture division for the most outstanding cut specimen - an Enchantment Lily. He also won sweepstakes for the most blue ribbons in that division.

The Clyde Shrells were given special awards for their display of the club's library books and scrapbook in the educational division. Mrs. Margaret Q. Calvert won a special award for her display of propagation of African violets, and W. M. Counts got an award for his educational display on growth and culture of orchids.

Other first place winners in artistic arrangements included Mrs. Eloise Hendricks, Mrs. Esca Brown and Mrs. R. L. Lewis.

Additional first place people in the horticulture division were Lucille Long, Mrs. Fred Carlile, Mrs. Lewis, Mrs. Alice Arnold, Mrs. R. B. Goulette, Mrs. H. G. Breckenridge, Mrs. Henry Breck-enridge, Miss Mary Cathryn Smith, Mrs. C. L. Rothacker, Mrs. Margaret Q. Calvert, Fern Holder, Joe Bohn and Mrs. R. B. Goulette.

Picnic Under Stars Set for June 24

Astronomers plan a picnic and lecture "under the stars" June 24 at CRA picnic area, Commissioner Art Gilligan said this

The picnic will start at 6 p.m. Guests will bring their own picnic suppers.

Norman Cole, director of Children's Museum Planetarium, will be guest lecturer.

Gilligan promises that five planets, Jupiter, Mars, Uranus, Venus and Saturn, will be visible -weather permitting.

He said the picnic's a family affair and is open to all Convair families in addition to astronomy club members.

Work parties on the club's observatory have been scheduled for June 13, 17 and 20.



EAGLES—Here are enthusiastic youngsters who call themselves the Eagles. Manager is Coy Spinson.



Junior Horsemen to Participate In Horse Show Planned June 20

Another junior horse show for er won a first place trophy in youngsters 18 years and under will be held June 20, Commissioner Ralph S. Reade announced this week.

Reade said junior riders from all over the Fort Worth area have been invited to participate.

Heading the show this time is B. R. Williams of Dept. 81. Williams, as show director, has set up various events for those 13 through 18.

Youngsters will compete in western horsemanship, obstacle courses, reining, barrel racing, pole bending and potato racing.

There'll be special events in western horsemanship and pole bending for those who have nev-

Lee, Kitchens Win **Model Plane Meet**

Stewart Lee and Marion Kitchens took first places in the recent CRA model airplane club contest.

Lee won first in the free flight category, while Kitchens took top honors in the radio control di-

Other free flight winners included Paul Vineberg in second, Ted Clifton third. Price got second and Ben Leigh and Walt Reeves third in radio control.

any horse show before.

Williams said ribbons will be awarded for the first six places in each event and that trophies will be given to the winner of each class. There'll be a high point trophy presented to high point winner in each age group.

Prospective participants have been asked to contact the ranch area or CRA office for rules and entry blanks.

Dance Will Feature Miss CRA Contest

Miss CRA contestants will parade in front of judges at a dance planned by Commissioner Ike Pemberton for 8 p.m. June 20 at the clubhouse.

H. L. Carter, weight lifting commissioner, said Miss CRA applicants can register for the contest until June 15 by contacting him at his home, ED 6-4701. Applicants will be judged on poise and looks alone.

Art Davis and his orchestra will play for dancing starting at 8 p.m. The Miss CRA contest will get under way at 9:30 p.m.

CRA Golf Tourney To Start Saturday

About 30 CRA golfers will tee off for their annual golf championship tournament Saturday at

the Z. Boaz green.

They'll be at Worth Hills Sunday, at Rockwood June 20, and at Meadowbrook June 21.

Handicap strokes will be used in determining total scores in both championship and first

CRA Area Closes All Day June 13

Convair Recreation Area will be closed June 13 to all employees except those specifically invited for a special all day event.

Employees eligible to attend will be notified. The area will open on regular schedule again on Sunday, June 14.

No Tournament Set For CRA Chess Club

Commissioner R. W. Wooten said this week there will not be a CRA spring chess tournament since so many Convair players participate in the City League. He added that plans are being made for a fall tournament.

Is It News?

Is it news? Then grab a telephone and call Convairiety



PIRATES—Although they may not be as big as the Pittsburgh Pirates, these CRA players are just as "fired up."



YELLOW JACKETS—CRA's Little League Yellow Jackets can buzz right through almost any game without difficulty. Group is managed by R. B. Smith.



INDIANS-T. A. Middleton and Indian team can be pretty rough out on diamond, especially when players are on the war



PANTHERS—Manager is T. O. Morrow. They may not look as fierce as a panther, but they can scare up a few home runs if given a chance.



HUSTLERS—K. A. Tuggle, manager of Hustlers, says his team can be almost "supersonic" when it lines up behind the bat.

Over 90 Youngsters Playing CRA Little League Baseball

Over 90 youngsters 12 years | Morrow, and Coy Spinson is in Baseball teams.

gles, Hustlers, Indians, Pirates and Yellow Jackets. Managing Panthers is T. O. low Jackets.

and under are out for Convair charge of the Eagles. K. A. Fort Worth's six Little League Tuggle is Hustlers manager, while T. A. Middleton corrals the Teams include Panthers, Ea-Indians.

Levi Ramsey is manager for Pirates, and R. B. Smith for Yel-

Activities Calendar.

Convair Recreation Association events in the next two weeks are listed below. Readers interested may clip this column and save it for reference until next issue of Convairiety. For more information, phone CRA office, ext. 2771 at Fort Worth, ext. 424 at Daingerfield.

SOFTBALL: Convair league play, 7 and 9 p.m., CRA.

SKIN DIVING: meeting, 7:30 p.m., STAMP: mixture picking and stamp trading, 8 p.m., CRA.

Wednesday, June 17

Fort Worth

Tonight, June 10

ASTRONOMY: work parties, 7:30 p.m., CRA.
CAMERA: program by photography class, 7:30 p.m., CRA.
RANCH ACTIVITY: calf roping, 6-8 p.m., ranch area, CRA.
SOFTBALL: engineering league play, 7 and 9 p.m., CRA.

RANCH ACTIVITY: calf roping, 6-8 p.m., ranch area, CRA.
SOFTBALL: engineering league play, 7 and 9 p.m., CRA.

RANCH ACTIVITY: calf roping, 6-8 p.m., ranch area, CRA.
SOFTBALL: engineering league play, 7 and 9 p.m., CRA.

RANCH ACTIVITY: calf roping, 6-8 p.m., ranch area, CRA.

Thursday, June 11 ARCHERY: shoot, 7-10 p.m., archery

ARCHERT: Shoot, 7-10 p.m., range, CRA.
ART: class, 7-10 p.m., CRA.
RADIO: operating night, 7:30 p.m. RADIO: operating night, 7.50 p.m., CRA.
RANCH ACTIVITY: riding class, 4:30-5:30 p.m., ranch area, CRA.
SOFTBALL: second shift league play, 10:30 a.m.; engineering league play, 7 and 9 p.m., CRA.
SQUARE DANCING: classes: beginners 7 p.m.; advanced 8:15 p.m., CRA.
Friday, June 12

Friday, June 12 BRIDGE: class, 10 a.m.; duplicate session, 7:45 p.m., CRA.
RANCH ACTIVITY: cutting, 6-8 p.m.; roping 7-9 p.m.; ranch area, CRA.
SOFTBALL: Convair league play, 7 and 9 p.m., CRA.

Saturday, June 13 ASTRONOMY: work parties, 9 a.m. 2 p.m., CRA.
BOAT CLUB: outing and cruise, Benbrook.
RANCH ACTIVITY: riding classes, 9
a.m., ranch area, CRA.

Sunday, June 14 RANCH ACTIVITY: cutting, 4-6 p.m. roping 6-8 p.m., ranch area, CRA.

Monday, June 15 MOVIE: "Day of the Badman" with Fred MacMurray. Shown lunch period 50-foot aisle.

Tuesday, June 16 RANCH ACTIVITY: cutting, 6-8 p.m., ranch area, CRA.

SOFTBALL: Convair league play, 7 and

CRA. STAMP: mixture picking and stamp trading, 8 p.m., CRA.

Wednesday, June 17 ASTRONOMY: lecture meeting, 7:30 m., CRA. BOAT CLUB: meeting, 7:30 p.m., CRA. BRIDGE: duplicate session, 9:30 a.m., RANCH ACTIVITY: calf roping, 6-8

ARCHERY: shoot, 7-10 p.m., archery range, CRA.
ART: class, 7-10 p.m., CRA.
RANCH ACTIVITY: riding class, 4:30-5:30 p.m., ranch area, CRA.
SOFTBALL: second shift league play, 10:30 a.m.; engineering league play, 7 and 9 p.m., CRA.
SQUARE DANCING: classes: beginners, 7 p.m.; advanced 8:15 p.m., CRA.

Friday, June 19 BRIDGE: class, 10 a.m.; duplicate session, 7:45 p.m., CRA.
RANCH ACTIVITY: cutting, 6-7 p.m.; roping, 7-9 p.m., ranch area, CRA.
SOFTBALL: Convair league play, 7 and 9 p.m., CRA.

Saturday, June 20 ASTRONOMY: work parties, 9 a.m.

ASTRONOMA, p.m., CRA.
Sunday, June 21 MODEL AIRPLANE: control line contest, 1 p.m., Forest Park.
RANCH ACTIVITY: cutting, 4-6 p.m.; roping 6-8 p.m., ranch area, CRA.

Monday, June 22 MOVIE: "The Far Country" with James Stewart. Shown lunch period, 50-Toot aisle.

Tuesday, June 23
GARDEN CLUB: meeting, 7:45 p.m. Garden Center.
RANCH ACTIVITY: cutting, 6-8 p.m., ranch area, CRA.
SOFTBALL: Convair league play, 7 and 9 p.m., CRA.
TABLE TENNIS: play, 7:30 p.m., CRA.

Wednesday, June 24 BRIDGE: duplicate session, 9:30 a.m., CRA.

(Continued from Page 1) Beal was sharing his room with J. J. Strittmatter of Dept. 75. "I, too, certainly have appreciated all the help that's been given to us since then," Strittmatter

Next door to the Beal and Strittmatter room were J. B. Kaufman of Dept. 75 and B. W. Gresham of Dept. 63. Both are

"Would like to thank all of the people who dropped in to see us," Kaufman said. "Visitors really help to break up a long day in the hospital."

Kaufman added that he was

especially pleased with the way

Convair handled things at the

plant dispensary and at Harris

Roland Gagne of Dept. 75 was

don't know how many

situation like this," said Gagne.

Ingram, who's back to work

S. A. Cauthen of Dept. 75 also

expressed his thanks for all of

the calls and flowers. Doctors at

Harris say his condition is im-

All the men except Cauthen were due to be released from the

proving.

by himself in a room across the

Fire Victims

Say 'Thanks'

added.

home now.



SONS' SCHOLARSHIPS-Frank W. Davis, center, Convair Fort Worth Division manager, points out B-58 technical aspects to Convair Sons Scholarship recipients Theron Ray Arrington (left) and Stephen Gail Johnson.



SURVEY TEAM—Center, left to right, S. E. Kelly, Air Force chief quality control, and J. Y. McClure, Convair Fort Worth manager of quality control, give visiting members of Air Force San Antonio Air Materiel Area survey team close look at B-58 Hustler.



HOOSIER HUMOR-Division Manager Frank W. Davis, left, gets chuckle from comedian Herb Shriner, who's trying to compare something "back home in Indiana" with Convair Fort Worth facility.

Jay had been

Gathered by 'Train'

"Most departments, after taking a look at unneeded items employees turned in, found that they could use many of those items in other operations. And every item used in this fashion means that the departments did not have to order items which Convair otherwise would have to He was super- buy."

Inasmuch as July 4 falls on a Saturday this year, the preceding day, Friday, July 3, will be observed as a holiday at all Convair divisions and facilities. Douse Lights When Not Required,

Convair to Observe

July 3 as Holiday

hospital by this week.

FAT CHECKS—W. E. Doom, right, of Convair Fort Worth's Dept. 4, accepts five checks totaling \$1,541.50 from S. E. G. Hillman, manager of material, for his latest Employee Suggestion.

Employee Suggestion Award Of \$1,541 Goes to W. E. Doom

mate, D. L. Ingram of Dept. 74, went home a day before the Con-\$1,541.50 were handed to Convair Fort Worth's W. E. Doom of "I've appreciated all of the Dept. 4 for his latest Employee people who have been willing to Suggestion. help us since the accident. You

F. G. Hillman, manager of material.

His suggestion will save the company \$15,415.

Doom's prize-winning idea idea for a \$1,085 savings. urged that the company sell ob-

A fist full of checks totaling cylinders for the F-102 program to the Air Force for spare parts.

Other top Convair Fort Worth employee suggesters with recent "fat checks" include T. W. Eakin The checks were presented to of Dept. 25-4 with a \$6,296 sav-Doom in a brief ceremony by S. ings; G. T. Teague of Dept. 27 with a \$1,691 savings; and H. T. Boswell of Dept. 74 with a \$1,496 savings. E. S. Beckwith of Dept. 82 turned in an approved

Employee suggesters receive solete and surplus canopy ejection up to 10 per cent of savings.

New Alignments for Engineering Dept. Will Shorten Lines of Communication

Realignment of engineering de- | tively individual groups of talent partment sections was announced work with each other and with last week by R. H. Widmer, chief other employees," said Widmer. engineer.

Purpose of the changes, he said, is to broaden the chief engineer's span of control and to shorten lines of communication.

"The power of the department lies in our people and how effec-

The new lineup has more sections reporting directly to Widmer and to H. W. Hinckley, as-

sistant chief engineer. The nuclear program remains under A. Kalitinsky, and the B-58 flight test program contin-

ues under N. B. Robbins. Reporting directly to Widmer is W. C. Dietz, chief of B-58 projects, and D. R. Kirk, special projects.

Reporting to Widmer through Hinckley are design engineering headed by L. H. Moffatt, engineering tests, headed by H. K. Growald, structures headed by E. H. Watts, service engineering headed by G. B. Clayton and miscellaneous projects headed by O. Wehmanen.

Also reporting directly to Widmer are R. E. Adams, advance design; E. B. Maske, aerospace technology; and J. E. Goode, electronic and flight control sys-

Administrative functions continue the responsibility of R. H. Schwarz, assistant chief engineer-administration.

Fellowship Money Will Total \$4,000

(Continued from Page 1) engineering administrator, personally went to Louisiana and Oklahoma to award the fellowships on behalf of Convair to Babineaux, Blanchard and Noyes.

Ellis said that all the winners will be trying for their master's degrees with the exception of Cresci, who'll be seeking his Ph.D.

Vast Store of Loot

(Continued from Page 1)

even more extensive than our pickup shows," said Lee.

planned by the committee coor- the 1958 average cost for three dinating the plantwide cost reduction promotion effort for the past seven months. Members of the committee include Middleton, ing department | Mel Gross of graphic reproduction services and a Convairiety staff member.

Watchword in Utility Savings A plea for employees and sup- employees in all parts of the ervisors to douse the lights when plant can help reduce unnecesthey're not needed went out this sary costs by keeping an eye out

the time.

week from C. C. Allen, assistant for lights in areas not in use at factory manager at Convair Fort "We made a good bit of prog-

ress in reducing our electricity usage in the first quarter of this year," Allen reported. "And with a bit more attention, we can save added thousands of dollars.

"Of course, no one suggests turning off lights or power when they're needed to do our jobs. We want light aplenty for that. But we don't want lights burning or equipment running when they are not needed-any more than we'd want to run up our light bills unnecessarily at home."

Total cost for electricity, fuel all shifts. and water in the first quarter this year was a whopping \$18,579 and/or tools not needed. The de-hoarding effort was under budget—and \$3,844 under months.

Nevertheless, the huge Convair plant still pays an average of about \$4,100 for these items on air lines if possible. every working day.

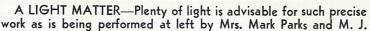
cost reduction in utilities, says possible.

He gave these pointers on ways employees can help:

- 1. Check with your supervisor to learn the location of light switches that control lights in your area and just what they
- 2. Turn off all lights in un occupied areas during second and third shifts.
- 3. Turn off fluorescent lights not needed for one hour or more during all shifts.
- 4. Turn off incandescent lights not needed for any period during
- 5. Turn off power to machines 6. Conserve compressed air,
- which is very costly in electricity. 7. Report leaky air lines at once to maintenance.
- 8. Avoid running vehicles over
- 9. Operate electrical furnaces Allen, plantwide monitor for at reduced temperatures when









Martin of FW Dept. 31. But when no one is in area (as in center above), lights merely run up bills. Shut them off (far right).



Harwell Heads

Gen. Accounting

Ray Harwell assumed duties as

manager of general accounting at

Convair Fort Worth this month

upon resignation of Wallace Jay.

Harwell, who joined Convair as

ened. visor of billing (9-3) before taking the new position. in the account-

since joining Ray Harwell Convair in 1951. He became manager of general accounting in 1955. He left Con-

cial firm.

Harwell was an accounting major and graduated from Southern Methodist University. He did graduate work at La Salle University in Chicago and also has studied at Texas Christian Uni-

versity. He held accounting positions with firms in Fort Worth and Dallas before coming to Convair.

> Is It News? Call Convairiety



Fort Worth and **Daingerfield**

EDITION

Fort Worth news office: ext. 2961; Daingerfield news office: ext. 424

AFMTC, CAPE CANAVERAL, FLA., FORT WORTH, TEX.

SAN DIEGO, POMONA, ANTELOPE VALLEY, VANDENBERG AFB, CALIF.

Held for 15 Years

Money Convair Folk Donated in 1944 Will Send Slain Flyer's Son to College

A 15-year-old Ohio youth soon | a former employee who was in | High. In recent state scholaryears ago.

1944 when em-

ployees began



the airplane. Just exactly why they did is a little obscure at this point, but apparently it was a spon-James Adovasio taneous gesture

that snowballed. When the B-24 came to the end of the line 15 years ago the money was gathered together and sent to the B-24-equipped 564th squadron of the 389th Bombardment Group, then called "one of the hottest squadrons in the European theater."

A part of the money was spent on a squadron dance. The balance the squadron decided to send to the widow of Sgt. James A. Adovasio, killed in combat. It of his son, then less than a year old, James Michael Adovasio.

checked out at Convair Fort

to knock off as many as 700 tests

compared to about 16 hours the

ployees of the tedious task of

making hundreds of readings,"

ordinator for the design and pro-

Said W. H. Davis of subsys-

"The Air Force in 1957 asked

tests consume now.

said Fred R. Liggitt.

the equipment.

tems procurement:

Mobile Flight Control Device

Will Do 700 Tests in an Hour

tems on the ground is now being tactical missions."

A new piece of electronic wiz- test equipment which could check

ardry that enables engineers to out the flight control system "fly" B-58 flight control sys- quickly and predict successful

And eventually the mobile tions, R. G. Kisler of service en-

flight control tester will be able gineering, and engineers from

on the flight line in an hour, with Eclipse-Pioneer Division of

trol systems ready for flight, the given the job at E-P to head de-

curement effort which resulted in the equipment.

program. Tests are being conducted by Convair systems opera-

completion.

will enter college - thanks to plant engineering in 1944. (His ship tests, he placed fifth in the \$2,881 in cash Convair Fort son is Thomas E. Boullt current school's division, and ninth in Worth employees pasted on sides ly of Dept. 27-7) Boullt recently of a B-24 Liberator bomber as it inquired of G. W. Couch of engiwent down the assembly line 15 neering test lab as to what happened to the boy.

The story A Convairiety inquiry located started early in Mrs. Adovasio in Youngstown, honor student at Cardinal Mooney



BACK IN '44—This was page one of Convair Eagle, FW Division publication in 1944. It inwas to be held for the education cluded photo of money-pasted B-24. Photo is at bottom. Ar-From that time to this every- ticle is below headline at upper body forgot about the matter. Everybody except Joseph Boullt, right. With good eyes, you can read headlines of 1944.

quickly and predict successful

So Davis, Liggitt, Idan Seale

of engineering systems opera-

various design groups teamed up

Convair people negotiated with

the nation, arrived at Convair

mediately into an extensive test

(Continued

Bendix Aviation Corporation.

the state in world history.

He hopes to attend an archeological institute to prepare for a career.

James is active in debating and sports, especially swimming, ice Ohio, where her son James is an skating, basketball and baseball. He is an Explorer Scout.

Wrote Mrs. Adovasio: "James and I again want to thank Convair employees for their generosity. The money has been kept, and will be of great help in furthering his education.

Classes in B-58 Systems Begin

Seven new classes for 110 people are due to get under way today, June 24, in Convair Fort Worth's comprehensive training program for Air Force B-58 personnel.

Representatives from Air Training Command, Strategic Air Command, San Antonio Air Materiel Area, Warner Robbins Air Materiel Area and Air Research and Development Command will attend.

Purpose of the courses is to familiarize Air Force people with the B-58 so they may return to bases to instruct crews which will operate, service and maintain the aircraft.

"The classes are a vital link in our B-58 program," said H. C. Anderson of personnel department's educational services section.

"With the advanced systems in the B-58, it is more important than ever before that Convair give the Air Force all the information and know-how at its command."

Classes will be taught in Convair classrooms in these subjects: aircraft mechanics, aircraft electrical, ground support equipment, fuel system repair, fire control, bomb navigation system, passive defense.

"Besides reducing the time required to prove B-58 flight conrequirements. M. J. Schentes was **Employees Reminded** new equipment will relieve em- sign and follow production to Of 31-Day Ruling on The unit, first of its type in **Insurance Physicals** Liggitt is overall project co- Fort Worth in June. It went im-

A reminder that employees responsibilities to assure proper tions and test lab people, with support of E-P personnel. and adequate Convair group insurance was issued this week by "Test results thus far have T. G. Croft, Convair Fort Worth chief of employee services.

Award.
The l

"We want to remind employees of certain insurance rules," said Croft, "so they may make sure they obtain full benefits."

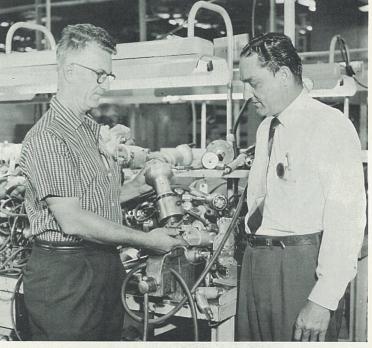
An employee may take insurance on himself and dependents upon employment or at any time within 31 days after that without physical examinations. After 31 days, physical examinations are required.

If an employee has dependent coverage on his wife at the time a child is born, the child is automatically insured after 60 days.

But if the employee has no dependent coverage, he has 31 days Most of the men participated in after the child is 60 days old the Convair-SMU college study in which to add the child to his program. insurance without a physical examination. A physical, however, is required to add his wife or other children.

If a single employee marries, he has 31 days to insure his dependent without a physical. A marriage certificate must be preemployee services.

(Continued on Page 8)



\$10,000 WORTH—Tool service people estimate that collection being examined by J. E. Bobbitt (left) and J. E. Matthews would cost approximately \$10,000 to replace. Tools are only part of equipment gathered in recent de-hoarding drive.

ES and CIP Saving Hits Half Million

More than a half-million dollars | dates for the award receive gold in savings have been chalked up cufflink and tie sets. by employees in less than the first six months of the year at Convair Fort Worth this year.

The half-million-dollar figure is the result of approximately 300 installed Employee Suggestions and 67 installed Cost Improvement Proposals.

Installed ES savings add up to \$154,473. Installed CIPs total \$431,462.

"Installed ES and CIP savings are at approximately the same level as this time last year," said M. J. Scott of the suggestion sec-

"But our potential for the year is much higher, since we have at this time many, many more ESs and CIPs in process than at this time last year. We've already received almost four times as many ESs and CIPs this year."

Included in the CIP total is more than \$173,000 racked up by themselves have certain specific six men. Because each of the six CIPs totals more than \$25,000 individually, these men qualify as candidates for the President's GETS GOLD MEDAL

All others who qualify as candi- sociation of Texas.

The men are: E. J. Roberts, Dept. 25, \$30,914 savings; Jim Weinstein, Dept. 24, \$26,440; R. D. Long, Dept. 19, \$26,439; E. L. Tucknies, Dept. 58, \$30,321; J. R. Ewen Sr., Dept. 27, \$29,628; and R. P. Johnston, Dept. 22, \$29,407.

According to Scott, 1,857 ESs and 618 CIPs have been received this year.

In one week more than 50 awards were approved—a near record amount.

Daingerfield Bond Buying Rate Rises

Convair Daingerfield employees are buying bonds at the rate of \$134,710 a year, J. E. Arnold, manager, said this month.

During the recent U.S. Savings Bond Drive, participation increased from 51.35 per cent to 62.02 per cent.

Average weekly deduction per bond buyer is \$12.14.

MASON LANKFORD

Mason Lankford, Dept. 28 man, The President's Award is pre- has been presented with a gold sented annually to the man at medal in recognition of his serv-Convair whose cost reduction recices as president of the State ord is judged most outstanding. Firemen's and Fire Marshals' As-

Twenty-Six Fort Worth Men Receive SMU Master Degrees

Twenty-six Convair Fort Worth | engineering: Eldon Lindimore; in

In addition, 13 received bachelor of science degrees.

Those receiving masters of science in nuclear engineering were: Joseph Levine, Hibbard Forsyth, Rodney French Jr., John Humphries, James Kennedy, Leonard McCleary, William McMullen, Lucian Morgan, Vernon Pierce,

men were awarded master of sci- electrical engineering: Doyle Colence degrees this month from Southern Methodist University. lup, Charles Moser, William Booton, Richard Bean, Chester Hardy, Ashley Welch.

Masters in mechanical engineering: William Johnson, Wayne Ball, Thomas Flock, John Mayers, Will Ransom, Hubert Skembare, and Charles Whitehurst.

Those receiving bachelor of science degrees in electrical engineering: James Carver Jr., Freddy Denke, Donald Koshi, Edward Webber; in mechanical engineering: Christopher Elkins, Lloyd Charles Schaedel Jr., Z. R. Wolanski.

Kerns, Billy Lowrey, Aubrey Martin, Richard Murray, Gerald Masters in aeronautical engi- French, Gary Goodman, Clifford neering: John Gallagher; in civil Moore Jr., Louis Smith.



MAGIC BOX-W. H. Davis, right, and M. J. Schentes examine newly arrived electronic test box which can check out B-58 flight sented to the insurance section in lanski. control operations on ground in matter of minutes. Test previously took better part of two shifts.

Quiet 'Nests' Prepared For 880 Passengers

Passengers aboard Convair 880s will be riding in "nests" of "cotton" padding when the jet transports go into actual service next

Over 1,000 pieces of fiber glass, of all shapes and sizes, are being tucked into the interior of each 880 to protect passengers from noise generated by engines and other of the plane's operating

More than 600 different shapes of fiber glass batts wrapped and stitched into plastic fabric covers



880 "PADDING"-From left, Dorothy McEwen, Bee Farmer, and Mary Lou Samarron, all of Convair SD Dept. 138, fit fiber glass sound - proofing material into 11th forward fuselage sec-

are clipped to the plane's frames and laced in with nylon cording. The pieces range in thickness from one to four inches, and in size from six inches square to the large 14-ft. long by 20-in. wide pieces that are shaped to fit around each of the 88 windows.

The sound-proofing material is installed in each major section of the 880-the forward nose fuselage, tail, overwing barrel—as they are being built. Depts. 138, 139, and 146 are each responsible for the installation of each section's sound-proofing before they go into mating. The joints between the sections are sound proofed after mating by Dept. 148 in major mate.

"We find, in our department, that women are better at fitting in the sound-proofing pieces than men," said C. M. Bradley, Dept. 138 foreman. "The girls are experts at installing the numerous shapes and sizes of batts and lacing them securely into the proper

Fiber glass pads are placed between the skin and any installations to go into the plane before the structural tie-ins are made. For instance, in the forward fuselage, specially-shaped batts are laced into locations to serve as backings for the radio rack, electric rack, flight engineer's panel, and underneath the cargo floor.

Four vendors supply the fiber glass sound - proofing material, cut to shape and fitted to Convair SD's specifications — H. I. Thompson Fiber Glass Co., Seaman Products, En-Fab Co., and Johns Manville Co. Any alterations made necessary by change in engineering design are made in Convair SD's tubing and fabric department.



SUBMERGED-Convair 880 fuselage goes under water in giant hydrostatic test tank at SD seaplane ramp as pressure cycling begins to test wear and tear equal to 50,000 flights. Divers will evaluate damage during testing.

'Balloon' Antenna Assemblies To Serve Detection System

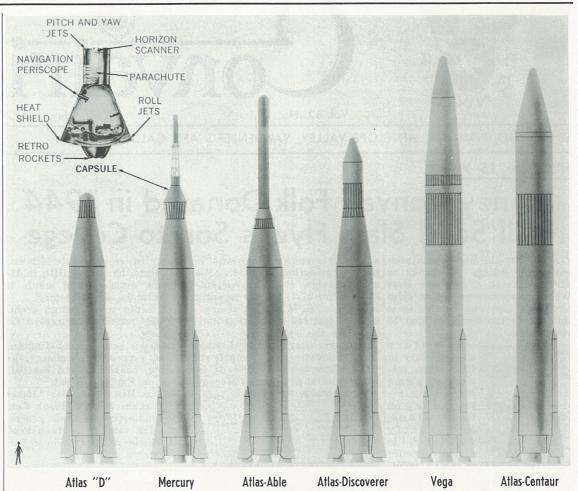
Huge balloon-like objects are being tested by Convair SD electronics section as part of its responsibility in furnishing antenna assemblies for an Air Force detection system.

Convair San Diego is acting as subcontractor for its sister division of General Dynamics Corporation, Stromberg-Carlson, in the design and development of 15 assemblies for the Rome Air Development Center, Rome, N. Y. The project is known as GPERF (Ground Passive Electronic Reconnaissance Facility).

The assembly consists of antennas housed in air-inflated radomes which are bolted to steel towers. The large radomes, looking like flat-bottomed balloons,

are made of dacron coated with Hypalon, a synthetic-type rubber sizing. They range in size from over 11 ft. to 44 ft. in diameter.

The towers and antennas are being built in the Convair SD plant while Muehleisen Mfg. Co. of San Diego is constructing the radomes.



Atlas, Space Age Wheelhorse, to Power Five Different Exploration Projects

field of space explorations is beling readied by Convair in the parachutes will enable the caperon ergy" class. form of five members of the Air Sule to return to earth after that Force Atlas "family" of space period. vehicles.

has a common trait in that the Atlas ICBM, now in production, provides the initial or booster power thrust to send it along its journey toward space.

Convair Astronautics, builder of the Atlas, is now at work on

all five programs.

Actually, it can be said this Atlas family contains six members, rather than five. The Atlas has already proven its ability to boost itself into orbit without the use of additional rocket stages.

(Astro has outlined a proposed Project Outpost which would utilize this trait. An empty Atlas tank in orbit would be outfitted for living and working quarters for men who would conduct preliminary studies of life in space.)

There is little doubt that the Atlas is slated to become the month. wheelhorse of the early space Nam age, due largely to its connection with the Convair family of space vehicles. At least four mond, secretary-treasurer. All "firsts" are now slated for the are in Dept. 6. Atlas space vehicles.

U.S. satellite in orbit.

It consists of a capsule (Mc-

Vega is a multi-stage rocket Each of these has been assigned a specific task. And each has a common trait in that the energy" class. Coupled with Atlas will be a second stage, also Convair-built; and a third stage provided by Jet Propulsion Lab-oratory. Vega will be able to put a 5,800-lb. weather satellite in orbit 300 miles above the earth or to send a half-ton pay-load to the moon. Vega also could put a 740-lb. experimental communication relay into the 22,000-mile or "24-hour" orbit.

Project Centaur (Atlas/Cen-

Convair FW Men **IRE Officers**

Three Convair Fort Worth men were elected to key positions in the Fort Worth section of Institute of Radio Engineers this

Named were: Graham H. Robertson, chairman; Felix Quirino, vice chairman; and W. D. Ray-

At the final meeting June 5 One first, quick to capture the at Ridglea Country Club, Jorman imagination of all, is Project I. Koski, 1959 chairman, com-Mercury (Atlas/Mercury), the mended members for their work program to put the first manned in forming two new professional group chapters.

Mel Gordon and Quirino were Donnell Aircraft) roughly conical instrumental in organizing chapin shape, approximately seven ters in reliability and quality feet across the base and 10 feet control and radio frequency inhigh. Atlas will boost the capter terference. The latter is the first sule into orbit at an altitude of of its kind in the United States. \mid ent Appeals.

A real "Sunday punch" in the 100 to 150 miles for up to 24 taur) will become the first U.S.

As such it will be capable initially of putting five-ton payloads into satellite orbit or sending 2,000-lb. payloads to the moon. Centaur is made up of an Atlas, plus a Convair-built upper stage of the Atlas type. upper stage uses the first U.S. liquid hydrogen rocket engine (Pratt & Whitney). If needed, a third stage (similar to Vega's) can be adapted for additional capabilities.

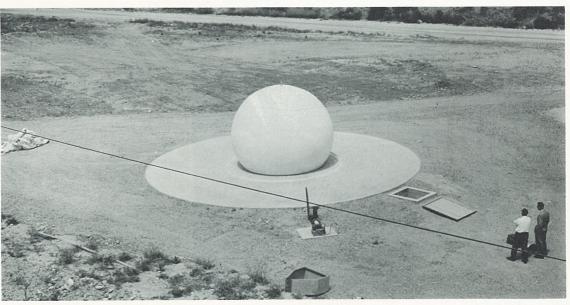
Project Discoverer (Atlas/Discoverer) will orbit instrumented payloads in polar orbit. It involves an Atlas booster, plus a second stage being built by Lockheed Aircraft.

Atlas/Able 4 consists of an Atlas booster, plus four additional stages to be fired into interplanetary space.

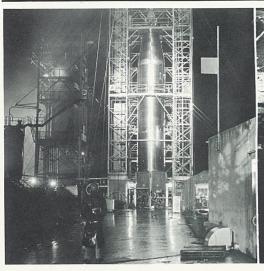
Atlas boosters for Vega and Centaur are being modified by building tankage sections a uniform 10 feet in diameter in lieu of tapered forward ends, as used with the ballistic missile.

Association to Hear SD Patent Attorney

Robert O. Richardson, Convair patent attorney, will address the San Diego Patent Law Association tomorrow night (June 25). With slides and recording tape as aids he will trace the history of a patent application through the U.S. Patent Office from rejection by the examiner and Board of Appeals to a favorable decision by the U.S. Court of Customs and Pat-



LISTENING POSTS—Huge 160-in. balloon-like radome, part of detection system being developed by Convair SD for Stromberg-Carlson, being inflated for testing. Convair San Diego men responsible for radome design are Dalton Bell and R. W. Quint of electronics section (Dept. 6-70).







ALMOST DOWNTOWN—Point Loma is oldest, but least known, of Astronautics test sites for AF's Atlas missile. Center is general view showing buildings at site,

plus Pacific coastline. At left is rainy night shot of fuel tests. Certain tests require evacuation of personnel (right) who watch smoke rise from nearby hillside.



HOLD YOUR HAT-Wind and rain lashing in over Pacific provide ideal elements for special tests. They also cause Joe Dudash, M. H. Greenspan and Lon Jordan to clutch their hard hats as they work high atop tall fuel flow test tower.

Point Loma 'Granddaddy' Of All Astro Test Bases

BY BRYAN WEICKERSHEIMMER Convairiety News Editor, Astronautics

If you want to bake, broil or | However, individual tests are

bases. Little has been written about it. However, it is the 'granddaddy" of them all in age. In December, 1953, Convair

leased the 50-acre site from the Navy. Activation came in October, 1954.

(Convair missile testing on Point Loma actually dates back to 1947 when static tests on Convair's ICBM research rocket, the MX-774, were conducted on a 13-acre site north of the present installation.)

Perched on a shelf just above the Pacific, the test site is surrounded (outside the security fences) by a brush-covered area. A single road provides access. Astro's operation at MSTS, Ed-Although the site is readily visible from the ocean side, special the ridge of Point Loma.

These windswept reaches have long been a boon to Astro men performing special wind and rain tests. When these climatic conditions occur, there are usually Astro men braving the elements.

Point Loma is a branch of the engineering test laboratories at Astro and as such fall under the supervision of R. S. Campbell, chief of test labs. R. C. Hinck, group engineer, is in charge at the site.



do I see about losing my

freeze; drop, immerse or squeeze; set up and conducted by test shake, rattle, pound, pull or enginers from such groups as merely test to destruction missile systems, components, instrumenparts, systems or components; tation design and other labs. then Astronautics has the equipwork force and performs most Chances are, this equipment is of the mechanics of preparing now on hand or can be set up for tests. Foreman J. D. Jones at Astro's Point Loma test site heads this group. Many other near San Diego.

Point Loma has long been Astro's "silent" member among test signed there regularly.

Point Loma is virtually all "male." No women are assigned there. The feminine element revolves around a daily visit by a plant nurse and an occasional visit by a woman engineer.

Tests performed can involve complete missiles, although most effort is involved in component and sub-assembly tests. Test specimens may be straight from the assembly line or may be "one of a kind" items. They can also be missile parts from other test bases. For instance, Atlas missile tanks now being tested in one installation came from a missile previously static tested at wards AFB.

month. Some call for an aroundthe-clock vigil, although normal operations at the site are conducted on a two-shift basis.

Remoteness of the area is one of its key assets. Some tests considered potentially dangerous call flight characteristics of the two E. Jahnke. for evacuating the area. Crews watch from vantage points along nearby slopes or a reinforced concrete blockhouse.

Campbell this week voiced high praise for those who man Point Loma.

"We have much standard test equipment available," he said. "But some items we need just can't be purchased. When this happens our people build what they need, showing great origin-

ality.
"I know of few occasions when
"t forthcoming on results weren't forthcoming on schedule," Campbell added.

(Point Loma's unique new environmental chamber, which can accommodate an entire AF Atlas missile, will be covered in a later story.)

Novel 'Aerial Photograph' System Used to Design B-58 Crew Stations

Unique to the aerospace in the same time. dustry is Convair Fort Worth's The subject measurement used to design crew produce refinements.

Called "photogrammetrics," the the grid. new method was developed by Convair engineers after the idea cessed, precise measurements controls in the supersonic Hustler. was batted around at Wright Air Development Command. Actually it works much like aerial photography.

Jack Chaffee of the human factors group said it is important in crew station design for engineers to know the exact amount of movement a man can make efficiently from any given position. For instance, they need to know how far the right or left hands can move to reach controls.

To achieve this and to have a permanent record of data, Chaffee and the human factors group with an assist from photo lab crews, applied the photogrammetric process.

Design engineers placed 211 different subjects physically representative of pilots and crew members, in a simulated B-58 station and started the cameras

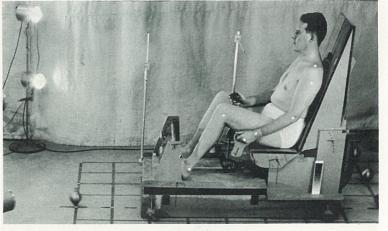
Each subject - clad only in trunks in order that his movements could be pinpointed with precision—was "spotted" at nuwith white discs.

set up. All cameras recorded at ing the past week.

system of three dimensional marked off grid area, were il- various grid points. luminated by six strobe units.

were calculated by algebraic The subjects, seated on a scale by plotting x, y and z to

Not limited to development of stations for the B-58 Hustler and Special wires were also used the crew stations, engineers are from floor to ceiling to help form now using photogrammetrics in testing muscular strength to see After the pictures were pro- how much force pilots put on



HUMAN ELEMENT—"Model" sits in seat in photogrammetric measurements lab. Three cameras shoot from three different angles, recording limits of movement. Note white "dots" attached to subject. These enable engineers to plot measurements mathe-

880 No. 1 Will Be Laid up precision—was "spotted" at numerous key points on his body For System Up-Dating

Three studio type cameras, one above and two facing the sub- now in flight test status have end (June 19-21) at North Island jects from different angles, were been away from home base dur-

Ohman Checked Out in TF-102A.

commanding general of the 19th Force is at present a joint ARDC Air Division, Strategic Air Com- and SAC operation with SAC mand, early this month received slated to assume full responsihis delta pilot's credentials for checking out in a TF-102A at year. Carswell AFB, Texas.

Duration of tests vary from in the B-58 he must complete six Deutschendorf, a qualified B-58 pilot.

The TF-102 was chosen as a

Brig. Gen. Nils O. Ohman, Convair planes. The B-58 Test

SAC pilots checked out in TF-The Convair-built TF-102A is 102As so far are Col. R. E. being used as a transitional Evans, commander of the 3958th training aircraft in the current OE&T Squadron, Lt. Col. A. W. B-58 Test Force at Carswell. Before a pilot can be checked out Maj. H. E. Confer, Maj. H. J. and Maj. J. effort is required to view it from a few seconds to more than a hours and ten landings in the Valentine. ARDC pilots checked TF-102A. One ride must be with out are Col. David M. Jones, director of the B-58 Test Force, Lt. Col. F. Finberg, Maj. L. W transitional aircraft to the B-58 Amos, Maj. E. E. Bradly, Maj. because of its delta wing con- V. M. Kummel, Maj. K. K. Lewis,



CHECKED OUT-Brig. Gen. Nils O. Ohman, commander 19th Air Division SAC (second from right) receives certificate as proof of check-out in Convair TF-102A from J. S. McQuay, Convair SD field service rep. at Carswell AFB, Texas. Looking on is A. S. Witchell of Convair Fort Worth customer service at far left and Col. David M. Jones, B-58 piloting one of the white and Test Force director (far right).

Naval Air Station on public display at the annual Navy Relief Benefit Carnival.

After returning to Lindbergh Field, No. 1 is back in its stability and control testing program. Piloted by Don Germeraad, chief engineering test pilot at SD, with W. D. Carrier, production flight pilot, as co-pilot, the first 880 will continue the current testing throughout the rest of this week.

Present plans are to put the plane on lay-up status next Monday for several weeks to bring it up to date with system changes which are intended as production configuration after they are proved out. After the recommended changes have been evalpect the first completed 880 to be ready for FAA check-out on control systems.

The second 880 in flight test, plane No. 3, flew to Edwards AFB Monday of this week (June 22) to spend a week-and-a-half (until July 1) undergoing takeoff and landing tests with John Knebel, engineering test pilot, at the controls.

The present desert testing is a preliminary workout for plane No. 3 before it is sent back to Edwards in mid-August for a six-week period of maximum weight performance tests in takeoffs and landings. At that time, it probably will undergo FAA certification for that portion of the testing program with an FAA pilot flying the big transport.

Co-pilot with Knebel in recent flights has been A. P. Wilson of production flight. Both Wilson and Carrier are being checked out in the 880s in preparation for the time when they will be gold ships.



COMING THROUGH—George Vogt of Convair SD flashes form of old that won him "most valuable player" award in professional Roller Derby competition in 1952. Vogt traveled to Europe and Australia as player and coach of some of top pro teams.



DERBY DARLING - Carole Vogt, now working in General Offices, combined charm with skating prowess to attain recognition in early '50s as one of top gal Roller Derby skaters.

Convair FW Counts 250 'Pro' Engineers

Four Convair Fort Worth flight test engineers are new members of the Texas Society of Professional Engineers, Frank Clayton reported this week.

They are: Donald R. Foreman, Raymond R. Hall, Gary D. Haltom and Thomas L. McCutcheon.

Clayton, chief of plant engineering and a director-at-large of the organization, said approximately 250 Convair men are Registered Professional Engineers. Of these, more than 130 are members of the Texas Society of Professional Engineers.

Twenty-five Convair employees have received certification as professional engineers during



Perilous

Roller Derby Pro Recalls 'Maple Days'

A Convair SD man has literally skated his way around the

Before joining Convair three years ago George Vogt (Dept. 15-10) was player and coach of some of the top professional Roller Derby teams that ever "pushed maple."

For nine years Vogt was one of the highest priced players on the Derby trail. He performed with and coached such teams as the Brooklyn Red Devils, the Chicago Westerners and, more recently, the San Diego Clippers.

"The Roller Derby was big business," Vogt recalled last week. The salaries paid were commensurate with the risks involved. Average pay for a pro skater was \$9,000 a year, and the veterans got considerably more, in and around the \$17,000 bracket.

"I feel I earned every cent of what they paid me," Vogt said. "While skating I picked up a broken back, a broken jaw, a broken leg and an indefinite number of broken ribs.'

For Vogt the Derby trail led to England, France, Australia and all over the U. S. "We were well received in England, in fact our stay was extended three weeks. In Australia, too, we were given a fine reception.

"But the biggest thrill in terms of crowd response was at Madison Square Garden in 1951 and '52. Both years, for seven days in a row, we attracted standingroom-only crowds of around 19,-000. In those years it was an alltime high, consecutive run attendance record for the Garden."

The Roller Derby is a rough and tough game, Vogt said. 'Sure, some color is added, skaters teeter off balance on purpose and a few of the spills are exaggerated but on the whole the sport is legitimate."

Vogt should know. In 1952, while with the Brooklyn Red Devils, he won the "most valua-ble player award," an honor similar to that given in the baseball world.

However, in the Vogt family, George doesn't have a monopoly on Roller Derby fame. His wife, Carole, just a few years ago was one of the top gal stars. Now working in Dept. 1-52 in General Offices, she also won a "most valuable player" award the same year as her husband.

Although most of his playing days are behind him Vogt still keeps active in the coaching line. "The first thing a young skater has to be taught is how to fall. Then the technique for 'riding the groove' with the maximum amount of speed and maneuverability. How to operate while skating in a 'pack' is an art in itself," he explained.

Convair FW Man Goes to Moscow To Help Build Unique Fair Exhibit

nuclear program, has returned from a seven-week tour of duty in Moscow.

On leave of absence from Convair, Boone was a member of an American party assigned to build a theater-in-the-round similar to Fort Worth's famous Casa Manana. Arranged by the U.S. Department of State, it will be used as a trade fair exhibit and ultimately will be sold to the Russian government.

"Twice the size of the Casa Manana, the new theater has a 112-foot radius, which makes it the largest theater dome in the world," Boone reported.

Boone, who learned the Russian language in an Air Force course at Syracuse University and is a part time instructor in TCU's Russian department, served as translator and engineering administrator for the American visitors. Construction was largely a "package deal" with prefabricated parts coming from the United States. Russian labor was used for assembly.

The Russians worked an "American" shift of 8 a.m. to 5 p.m. during construction of the gigantic theater.

Incidentally, Moscow stores open at 11 a.m. and remain open

until 8 p.m., six days a week.

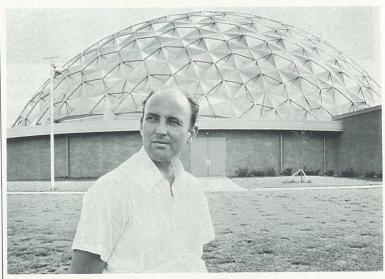
Boone found opera and ballet
more popular than movies in Moscow. Motion picture houses show no American or English films, only Russian, Polish and Spanish. Radio stations play only classical music and folk songs, but Boone noticed records of pop-

"Churches — Russian Orthodox, Baptist, Catholic, Jewish-appear well attended, though almost all churchgoers are 40 years or older," he noticed.

Autos are scarce in Moscow (gasoline is 45 cents a gallon) but the subway system is the ly," he added.

E. J. (Jim) Boone, technical ular tunes on sale at music best Boone has ever seen. The editor on the Convair Fort Worth stands. the equivalent of eight or nine dollars a day and most likely lives in a crowded apartment. Population of Moscow is five and a half million and there is a tremendous housing shortage.

"The people were most friend-



MOSCOW VISITED-Convair Fort Worth's E. J. Boone pauses in front of Casa Manana Theater, replica of which he helped build in Moscow earlier this year.

Interpreting South Sea Dances Specialty of Convair Girls Trio

upon hand movements and an occasional hip flip, can be enter-taining to "read." It can also be hard work.

A trio of Convair girls, stu-

"Sign language," based largely dents of the art, can testify to the latter. For those who have seen them perform, the former needs little elaboration.

> The women are interpretative dancers specializing in the dances of the South Sea islands.

> Kamamalualoma (Lucky) Papke of Astro's Dept. 182, Tai Boyd of San Diego Division's Dept. 98, and Jeannie Cox, wife of Roger Cox of Dept. 214-3 at Astro, work either as a team or singly. Professionally they are known as "Aloma," "Tai," and "Leilani."

> They have performed for over a year at clubs, private parties and a growing number of luaus in the San Diego area.

> For "Aloma" and "Tai" the dances come naturally. Both were born in Hawaii and have danced as long as they can remember. Through the years they have added to their natural abilities through observation and study. For "Leilani" the story has been different. A native of Honduras, she was drawn to Spanish dances until she began studying under the other two.

"We make up our own routines as well as relying on traditional themes," Mrs. Papke said. "However, in each there is a story to tell of love or frustration or pursuit. This we convey by use of the hands.

"Hand movements, to the rhythm of the music, tell the story. We use hip movement merely to stay with the rhythm," she added.

Music is normally provided by guitars and drums with the using dancers is available to employees through | hardwood sticks and bamboo sections to add effect.



SIGHTLY ARTISTS—These Convair girls, Kamamalualoma Papke, Jeannie Cox and Tai Boyd, perform South Sea Island dances as team and singly. Here they show costumes, bamboo sections, feathered gourds and hardwood sticks, used for effect.

Space Primer Sales Top 100,000, Definitely in Best Seller Class

seller" quite like its Space Primer, a product of Astronautics editorial section of communication department.

The 72-page booklet made its appearance in January of this ear. The initial press run of 75,000 copies sold out in two months. In March a second run of 100,000 copies was made. Over half of these have been dispatched.

Space Primer is a concise, wellwritten introduction to the field of astronautics. It deals, in an easy-to-understand style, with such subjects as rocket propulsion, motion of satellites, ways in which man can reach the moon, etc. In addition, there is a simple glossary of rocket and space terms, a list of books and magazines on space and a section telling how to prepare for a career in astronautics.

While the booklet was aimed at the high school student, it has found popularity with all

Thousands of grade school students have requested copies. So have many colleges and universities and such organizations as the National Geographic Society, General Intelligence Agen-

Convair has never had a "best | United States Information Serv-

Astro has filled requests for copies from countries around the world.

Astro sells the booklet for 10 cents (slightly less than publication and distribution costs). It employee services outlets.



SWAMPED-Marie Trabbold of Astro communication departcy, Library of Congress, American Rocket Society and the Convair "best seller." Requests have come from all over globe.

NEWS FROM OTHER DYNAMICS DIVISIONS

General Dynamics Corporation, created in April, 1952, as successor to Electric Boat Company, is composed of six divisions and a Canadian subsidiary, Canadair, Limited, of Montreal, airframe builders. The divisions are:

Convair, head offices at San Diego, Calif., aircraft, missiles, and space systems.

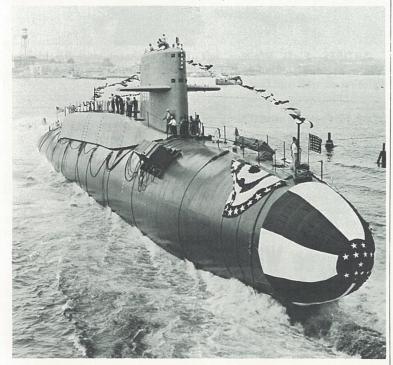
Electric Boat of Groton, Conn., submarines.

Stromberg-Carlson, of Rochester, N. Y., telecommunications, electronic equipment.

Liquid Carbonic of Chicago, Ill., carbon dioxide producer, industrial and medical gases.

General Atomic of San Diego, Calif., nuclear research, development, production.

Electro Dynamic of Bayonne, N. J., electric motors, generators.



GEORGE WASHINGTON — First ballistic missile equipped atomic submarine, George Washington, splashed into Thames River this month. It was built by Electric Boat Division.

General Dynamics Enlarges Liquid Carbonic's Activities

ics Corporation has acquired the industrial and medical gas business of the Hench Associated Gas Enterprises, Rex L. Nicholson, president of the Liquid Carbonic Division, announced last week.

Nicholson said that the acquisi tion of stock in the various companies comprising Enterprises in volved "several million dollars" and was a cash transaction. He said that the Hench group is the strongest independent in the industrial and medical gas field.

Frank Pace Jr., chairman of

Keim Chief Engineer Military Products

ROCHESTER — Appointment of David Y. Keim as chief engineer - military products of the Electronics Division of Stromberg-Carlson has been announced by Kenneth M. Lord, division director of engineering.

engineering department head for Wilson, general manager. microwave and electronic equip-Co.

NEW YORK-General Dynam- the board of General Dynamics, commented that acquisition represents another step in the corporation's planned program to achieve an approximate balance in defense and commercial profit

> The activities of the Hench Gas Enterprises cover most of the eastern seaboard from Maine to Florida and extend inland into Ohio. Principal products are oxygen, acetylene, argon, nitrogen, nitrous oxide, hydrogen, and welding equipment.

> Nicholson said that the acquisition of these important facilities will enable Liquid Carbonic to become a more effective competitive factor in the industrial and medical gas business on a nationwide basis.

STROMBERG-CARLSON APPOINTS PIERCE

SAN DIEGO - Robert R. Pierce has been named purchasing agent for Stromberg-Carlson Keim previously served as here, according to Dr. Donald G.

ment for the Sperry Gyroscope all purchasing activities at the widely diversified fields you have San Diego facility.



NAUTILUS-Frank Pace Jr., left, chairman of board of General Dynamics Corporation, presents scale model of Nautilus to Dr. Leonard Carmichael, secretary of Smithsonian Institute in Washington, D.C. Model will become permanent part of Naval History collections. Nautilus was built by Electric Boat Division.

540 Scores in **Fuel Economy**

MONTREAL — Exceptionally good performance, fuel economy and serviceability of the Canadair-Convair 540 jet-prop airliner have been proved on a very successful one-month sales and demonstration tour of South American countries.

The tour included flight demonstrations at Bogota, Lima, Santiago, Buenos Aires, Porto Alegre, Sao Paulo, Rio de Janeiro and Caracas. One of the highlights was on May 31 when President Juscelino Kubitschek of Brazil was flown 575 miles from Rio to the new capital of Brasilia.

The 540 flew a total of about 19,000 miles of which 16,000 were point-to-point trips and the remainder local demonstration flights. Of the 95 flying hours, 72 hours 10 minutes were spent on point-to-point and route-proving trials, and 22 hours 50 minutes were taken up by local flights.

Favorable comment was made by pilots and passengers alike on the 540's extremely good performance in takeoff and climb, the low noise-level in the cabin and the almost complete lack of vibration from the two Napier Eland jet-prop engines.

F-102s Slated For ADC Shoot

Convair-built F-102As will join other Air Defense Command allweather interceptors in weapon system evaluation at Tyndall AFB, Fla., this fall. The William Tell II operations will extend over ten days, Oct. 14-23.

F-106s, Convair SD's newest jet interceptors due to go into operation with ADC, will not take part in the maneuvers, although they will be on display and will make fly-bys during the show.

Flying high over the Gulf of Mexico Test Range, ADC interceptors will pit their skill against near-sonic targets before press, radio, and television representatives from across the country.

Targets will be jet-propelled radar-guided drones, one-fifteenth the size of a modern bomber, which can take evasive actions similar to those of attacking bombers. Radar operators on the ground will direct the planes toward the tiny targets flying at altitudes up to 50,000 ft.

Coggan Honored

B. F. Coggan, Convair vice president and San Diego Division manager, received the first distinguished alumni award at recent commencement exercises of Michigan State University in East Lansing Mich.

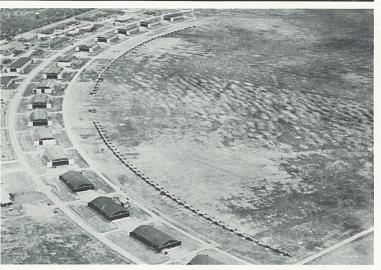
In presenting the award to Coggan, a graduate of the class of '39, Dr. John Hannah, president of MSU, said, "By your Pierce will be responsible for outstanding accomplishments in reflected great honor upon your Alma Mater. In the name of Michigan State University, and all of its alumni, I present this award to you, and congratulate you upon being the first to be selected as having earned this special recognition from this great university of which you are a distinguished alumnus."

Prime Minister John G. Diefenbaker of Canada gave the commencement address for the 4,000 graduating seniors.

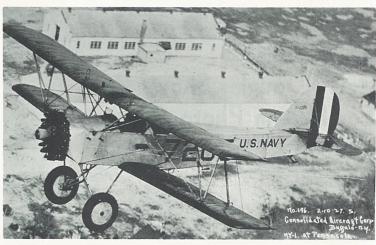
Convair SD, Astro Men Win Diplomas

Eight Convair SD and Astro men received their high school diplomas from the San Diego Evening High School at last week's commencement exercises.

San Diego Division employees graduating were Gerard E. Archambault, Talmadge A. Burks, and Raymond E. Clapper; while from Astronautics were Jesse E. Bodine, Jerry L. Dehner, Donald C. Forbes, Leokadja Gutowski, and Ides Joseph Romero.



A BATCH OF PT-Is—On line at Brook Field, Texas, in winter of 1927 were 72 Consolidated PT-1 trainers. Building these as well as trainers for Navy put money in bank for Consolidated Aircraft.



AT PENSACOLA—Not only Army was customer for Consolidated trainers in '20s but Navy, too. Company consistently won Navy competitions. This Navy plane was pictured at Pensacola

Consolidated Forced by Army To Build 50 PTs for \$1 Apiece

(This is No. 11 in continuing history of Convair, told in installments.)

It was in 1927 that the famous, took place.

Consolidated Aircraft had been doing a brisk and profitable business building trainers, profitable largely because of the foresight of the founder, Reuben H. Fleet. Confident that his trainer was the best and that the military would continue to buy, Fleet had gambled by ordering materials far in advance. He ordered enough to build 250 airplanes, even though at that time he did not have sales for them. The gamble paid off when the orders came in and the savings due to bulk orders of materials made possible a handsome profit.

By mid-1927 Consolidated showed a cumulative profit of \$867,000 on the service trainers it had built since 1923. The Air Corps* asked to see the company's books (a privilege not yet granted by law) and followed up with a demand for \$300,000 refund on excess profits.

Fleet and the directors felt the company had no alternative, since the services were their sole customer. Fleet negotiated one practical compromise which benefited keep going." customer and company alike, however. He pointed out that a \$300,000 payment would vanish into the general fund of the U.S. Treasury. Maj. Gen. Mason M. Patrick, Air Corps chief, agreed to "take it out in trade" by letting Consolidated build 50 trainers, currently priced at \$6,000 each, for a nominal charge of \$1

The Navy declined to join the Air Corps either in seeking the settlement or accepting its proportion (26 per cent) of the plane refunds. RAdm. W. A. Moffett, Bureau of Aeronautics chief, replied to Patrick in a memorandum dated Aug. 3, 1927: "The records of the Navy Department covering its transactions with Consolidated Aircraft Corp. show that all procurements from it have been subjected to competition in accordance with law. . . It is evident that notential competitors put forth their best efforts to obtain this business. . . The Navy Department is not in a position to question the profits that the company may have made."

Fleet was still protesting the 'Fifty Free Airplanes" incident justice of the settlement seven years later. In a 1934 communication to the House Naval Affairs Subcommittee, dealing with proposed regulatory legislation, he recalled the incident and said: "We took the gamble, the gov-ernment did not; we should, therefore, have been entitled to the resultant savings, which would have made our profit approximately 23 per cent. . . . In 1931 and 1932 our losses to the Army put the 'shoe on the other foot,' and it would seem fair that the Army should reimburse us . . .",

Fleet's allusion was to losses totaling \$375,157 that Consolidated suffered on Army contracts in 1931-1932. Had he been addressing the subcommittee a few years later he could have cited another loss, this time on Navy business.

"Of the 49 flying boats we have built for the Navy," Fleet wrote RAdm. Ernest J. King in 1936, "our audited books show a total net loss of \$89,673.93, with sufficient profit on the 16 we built for others to enable us to

The "others" referred to commercial customers.

*The Army's aviation branch was born Aug. 1, 1907, as the Aeronautical Division of the Signal Corps. Name changes followed in this order: Aviation Section, Signal Corps (July 18, 1914); U.S. Army Air Service (May 20, 1918); U.S. Army Air Corps (July 2, 1926); U.S. Army Air Forces (June 20, 1941); U.S. Air Force (law signed July 26, 1947, with separation from Army effective Sept. 18 when W. Stuart Symington was sworn in as Air Force Secretary).

SD's Salvage Yard To Close on July 4

Salvage yard at Convair San Diego Plant 1 will be closed on the July 4 holiday, reminded R. H. Lange, material sales super-

The yard at Gate 5 will be open for employee sales the following Saturday during the usual 8 a.m. to 1 p.m. hours.



BEGINNERS—Though their pictures belie it, these are beginner photographers who took prizes in recent CRA contest. Left to right they're Lib Glazner, Bill Findley, instructor, Betty Douglas and George Gilmore.

Betty Douglas Shows Print For First in Photo Contest

Betty Douglas turned in the prize winning print this month when the beginners class of the CRA camera activity staged a mighty good," said Findley. "We ware all placed at the progress." special contest.

Mrs. Douglas won first place with a picture of her daughter. third and George Gilmore took

The contest was held as a cli- Cost will be nominal.

were all pleased at the progress made by the class.'

Findley said he plans to start ith a picture of her daughter. another beginners photography Lib Glazner took second and class this fall. The class will cover everything from loading the camera to making prints.

Log Book Entries

Promotions

FORT WORTH

Promotions to and within supervision, professional and administrative effective June 8.

Dept. 6: to aerophysics engineer sr., H.
M. Bourland, W. P. Brock, J. H. Bul-

Promotions to and within supervision, professional and administrative effective June 8.

Dept. 6: to aerophysics engineer sr., H. M. Bourland, W. P. Brock, J. H. Bulloch, R. R. Coffman; to assistant project engineer, N. A. Clanton; to associate engineer, B. S. Goodson, L. D. Kerns, A. A. Martin, C. J. Moore Jr.; to chief of nuclear research and development, H. R. Dvorak; to design engineer, E. A. Beasley Jr., C. C. Beatty, R. C. Butcher, R. M. Myers, H. E. Roane; to design engineer sr., C. S. Bible Jr., M. B. Tomme Jr.; to design group engineer, G. E. Peters; to design group engineer, G. E. Peters; to design specialist, G. E. Hinds; to group engineer, G. E. Bobbitt; to nuclear engineer, B. T. Lowrey; to project propulsion engineer, L. Self; to structures engineer, E. Chadwick, F. D. Clarke, J. R. Lawrence; to test engineer, R. D. Berkley, W. F. MacSwain, G. L. Staas, C. W. Wilmsen; to test engineer sr., D. H. Fietz; to weight coordinator, L. M. Smyth III. Dept. 7: to development liaison man, W. A. Lucus; Dept. 8: to chief organization and s ys te m s engineer, R. M. Hatcher; to industrial engineering manager, W. E. Emish.

Dept. 9: to accounting supervisor, R. V. Bullock; Dept. 21: to spares representative, C. S. Gotcher Jr.; Dept. 24: to tool engineer, B. Douglass.

Dept. 25: to electrical engineer A, S. S. Abernathy; Dept. 27: to outside inspection representative, P. F. Aiken, L. Brostmeyer.

Dept. 28: to associate engineer, D. W. Boone; to chemist-senior, E. H. Smith; to process analyst, J. G. Lewis. Dept. 36: to assistant foreman, R. M. Keetch; to foreman, O. J. Adcock Jr.

Dept. 64: to foreman, R. D. McGrady, L. O. Shepherd; Dept. 85: to aircraft maintenance specialist, J. H. Pate; Dept. 39: to assistant foreman, A. E. Divine, F. G. Johnson.

Deaths

BREWER—W. L., Dept. 24, died June 17. Survivors include his wife, one daughter, his parents, one sister and one brother.

ner. CANNON—L., Dept. 25. Survivors in-lude one daughter and one brother. HANEY—C. R., Dept. 31, died June 7. Survivors include his wife, four sons, and two daughters.

HEARNE—H. E., (formerly Dept. 56), died June 15. Survivors include his wife, two daughters, three sons, his father, five brothers, and one sister.

LACKEY—J. E., Dept. 75, died June 15. Survivors include his wife, six sisters, and three brothers.

LAWRENCE—L. L., Dept. 32, died June 12. Survivors include his wife, two daughters, parents, one brother, one sister, grandparents, and a great-grandmother.

LONG—H. R., Dept. 27, died June 8. Survivors include his wife, one brother and three sisters.

Car Pools

MEMBERSHIP WANTED—from 3954 Carnett Ct. (South Hills), 8 a.m. shift (any south lot), call A. J. Welch, WA 3-4557.

MEMBERSHIP WANTED—from West-cliff (south hills area), 8 a.m. shift (cafe-teria lot), call B. L. Kates, WA 3-5936.

Hitchhikers

RIDE WANTED — from 615 Conner (Poly), 8 a.m. shift, call Jacque Rogers, JE 6-7851.

RIDE WANTED—from 4033 Comanche (Poly), 8 a.m. shift, call C. L. Smith, JE 6-2673.

RIDE WANTED—from 2727 Wingate, 7 a.m. shift, call Frank Sanchez, ED 6-4293.

RIDERS WANTED — from 5301 Ira (Browning Heights E.), 7 a.m. shift, call L. A. Belah, TE 4-1312.

RIDE WANTED—from 4900 block El Campo (off Camp Bowie, 7 a.m. shift (south lot parking), call Darnell PE 7-7423.

RIDERS WANTED — from vicinity of Harris Hospital, 7 a.m. shift, call Glenn Caudle, ED 6-0775.

RIDE WANTED—from 4301 Lynn Terrace (North Richland Hills), 7 a.m. shift, call C. B. Greenslade, AT 4-7677.

RIDE WANTED — from 7453 Llano (Ridglea West), 7 a.m. shift, call A. H. Franklin, PE 8-4641.

RIDE WANTED — from 7436 Ewing (Ridglea West), 7 a.m. shift, call Helen Marr, PE 7-6850.

RIDE OR CAR POOL—from 3118 University, 8 a.m. shift, call Betty Freeman, WA 6-3559.

RIDE WANTED—from Western Hills S., 8 a.m. shift (north or west lot), call CI 4-2647.

RIDE WANTED—from Garland, Texas, 7 a.m. shift, call R. W. Weber, BR 6-3337.

Convairiety

First Place Winner International Council of Industrial Editors

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SD Editorial Offices, Building 32, Plant 1, ext. 1071. Staff: Grayce Fath, Helen Pemberton, Fred Bettinger.

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Astronautics Editorial Offices, Bldg. 2, new plant, ext. 1154. Staff: Bryan Weickersheimmer, Astronautics editor. Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8, Staff: James Combs Jr., Pomona editor; Dorothy Keller.

Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.

New CRA Radio Net Set to Go On Air July 11

July 11 promises to be a big day in Fort Worth for CRA ham radio operators.

That's the day the CRA Radio Net goes on the air for the first time. Call letters of the net control station are W5SJZ.

The net—a meeting by air will be the only one in FW sponsored by a recreation association, according to Max Schelper, CRA radio commissioner.

The net is similar to one sponsored by Texas Instruments, Inc., in Dallas.

"We're particularly anxious for all hams to know about the net." said Schelper. "We want net," said Schelper. to hear from employees from Convair Fort Worth—and Daingerfield-if they can pick us up.

People picking up the net on receivers are urged to check in by radio or telephone. Telephone number is PE 7-4378.

Schelper said transmitting will be on 3945 kc.

Receiving will be on 3945 kc., 3970 kc, 7205 kc and 7195 kc plus or minus one kc. Receiving will also be on 29.640 mc and 50.7

Radio "check ins" will be requested in turn from one frequency at a time.

Three hams will be working the net each Saturday from the control station.

"We'll hold technical and roundtable discussions, code practice and traffic handling," said Schelper. "It'll be a kind of 'coffee klatch' by air.

"We're especially interested in having Convair employees check in with us when the net goes on the air on July 11. But we want anyone in Fort Worth or the vicinity who picks us up to contact us."

Star-Gazers Hold Picnic Tonight

CRA astronomers will have a special type meeting tonight, June 24, at the CRA area.

Members will meet at 6:30 p.m. for a picnic supper in picnic area No. 2. Each member will bring his own picnic supper.

After dinner, Norman Cole,

educational adviser of the aswill speak.

According to Art Gilligan, CRA | we can possibly give." astronomy commissioner, five planets should be visible: Mars, Uranus, Saturn, Venus and Ju-

Gilligan said a planning and research committee is starting preliminary work on a radio telescope. Employees interested in ors last week in citywide play in electronics—and the radio telescope—are urged to contact Jim

meeting. We hope all astrono-my enthusiasts will be able to Team mem attend our picnic-meeting and also support our radio-telescope Claude Freeman, Virgil Pruitt project."



ARTISTS-E. D. Weimer, left, Elmira Johnson and Bill Helena look over painting that took second place in recent CRA art show. Painting on wall won first.

Helena Takes First in CRA Art Show With Oil, 'Autumn'

Bill Helena's oil painting "Autumn" won first prize in the recent CRA art contest. Helena is in Dept. 25.

Second place went to Elmira Johnson for "Summertime" and third place went to Jim House for "Fault." Mrs. Johnson is the wife of Ben Johnson of Dept. 7, while House is in 6-4.

Employee Wins Safety Award

A Convair Fort Worth Dept. 54 electrician is slated to receive a special safety award this week.

He's Johnnie Coffman, who'll receive a Hobbs "Knight of the Road" award for his help after an auto accident May 2.

Coffman, then a truck driver, gave first aid and helped at the scene of the accident until police arrived. The accident was on U. S. Highway 80 near Pecos,

Coffman will receive a certificate and an identification type bracelet with the Hobbs Knight of the Road emblem.

In a letter to Coffman from Homer Garrison Jr., director of Texas Department of Public Safety, and J. O. Musick, general manager of Texas Safety Asso-

ciation, they said: "Again may we congratulate you for winning the award and for being the kind of courteous tronomy group and director of the Charlie Noble Planetarium, the highways—day in and day truck driver whose courtesy on out - merits more acclaim than

Chess Players in City Tilt Are Tops

A team of Convair chess players walked away with top honthe Fort Worth Chess League.

The team beat five other teams Green and I. J. Theriot.

"Weather permitting," said
Gilligan, "we should have a good
Gilligan, "We should have a good
for 10 weeks at Sycamore Recre-

Team members are: Ed West, and E. B. Schick.



TOP TEAM-Kay Gross and E. B. Schick try their hand at chess as George West, Jim Gardner, John Mandle, and Claude Freeman look on. All but Kay are members of chess team that took top city honors.

All three of the winning paintings were oils, and won their owners special trophies.

Judge was Jim Wozniak, Fort Worth artist who was an instructor in one of the CRA art classes this year.

The contest was open to members of the fall and spring art classes sponsored by the CRA art activity.

Classes were held at the Art

Camera Fans Stage Slide Show at CRA

Convair Fort Worth camera fans will stage a color slide contest at 7:30 p.m. tonight, June 24, at CRA Building.

Competition is open to all CRA camera activity members.

Miles Rogers, CRA camera commissioner, said Gene Gordon, Fort Worth Press photographer, will speak at the July 8 meeting of the activity.

The Passing

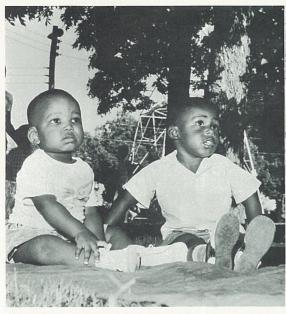
Fort Worth

Fort Worth

The following emblems were due during the period July 1 through July 15:

Fifteen-year: Dept. 4, V. D. Cantrell; Dept. 7, C. B. Clark, W. R. Dudley, L. R. Parvin; Dept. 19, E. H. Langford. Dept. 22, M. K. Huffman; Dept. 24, T. O. Landers, V. J. Moore; Dept. 25, C. Jackson, W. J. Leonard, F. S. Ligon. Dept. 27, A. Blair, V. Prasifka; Dept. 29, E. Copp; Dept. 30, B. E. Beasley; Dept. 31, J. L. Oldham, W. Z. Sessions, W. F. Stapleton. Dept. 46, R. W. Farless, C. M. Humphries, S. L. McCollum, W. J. C. Morgan, E. H. Paul, H. D. Weatherby, F. H. Wesson.

W. F. Stapleton.
Dept. 46, R. W. Farless, C. M. Humphries, S. L. McCollum, W. J. C. Morgan, E. H. Paul, H. D. Weatherby, F. H. Wesson.
Dept. 54, B. T. Reagan; Dept. 55, J. C. McClendon, J. M. Wilkerson; Dept. 56, H. W. O'Bryant, G. L. Ward.
Dept. 57, T. M. Purselley; Dept. 58, E. Ballard, D. I. Couch; Dept. 64, C. E. Cornett, J. F. Ivey; Dept. 65, J. W. Kehley, O. E. Sims.
Dept. 70, W. W. Jones; Dept. 74, M. L. Forrest, M. Weeks; Dept. 75, B. J. Smith; Dept. 81, R. C. Benfer, L. B. Pipkin.
Ten-year: Dept. 4, H. L. Betts Jr., E. L. Clup, E. W. Lowe, H. L. Preslar, C. B. Priddy, M. G. Spaugh Jr.
Dept. 5, H. B. Parnell; Dept. 6, R. H. Brickley Jr., C. W. Collum, R. E. Darling, B. R. Erwin, J. S. Gallagher, E. M. Harnist, H. R. Harrison, G. W. Hay, D. R. Kent Jr., P. G. Normand, V. S. Scott, C. H. Scroggs Jr., C. W. Shackelford Jr., H. D. Smith, G. P. Stidham, W. T. Timmons, W. W. Woodward.
Dept. 7, D. F. Brown, T. J. Ruby Jr.; Dept. 8, E. C. Wilgus; Dept. 20, W. A. Brown, E. E. Fenn, H. W. Fergason, E. R. Hickson, L. J. Jensen, J. L. Martin, M. W. Norris, R. A. Norton, W. J. Sells, W. T. Simpson Jr., J. T. Wignigton, J. L. Wilson.
Dept. 21, M. D. Hendrix, W. E. Maddux, B. M. Staples; Dept. 22, D. L. Pittman, J. E. Steele, J. E. Thomson; Dept. 24, W. C. Allmon Jr., D. M. Altizer, J. R. Jennings, W. L. Massey.
Dept. 25, E. Bryant, R. C. Jauman, W. I. Stephenson, G. M. Trammell Jr.; Dept. 27, L. E. Brostmeyer, J. M. Gooch. Dept. 73, E. W. Young; Dept. 74, B. W. Bryant; Dept. 75, L. F. Gerwe; Dept. 65, B. M. Daniels, J. N. Hogan. Dept. 73, E. W. Young; Dept. 74, B. W. Bryant; Dept. 75, L. F. Gerwe; Dept. 81, R. C. Baker, A. L. Hatheock, J. D. Landers, M. A. Lighthart, H. F. Martin, L. E. Robinson, J. K. Williams.
Dept. 82, H. A. Dubois, R. L. Jones Jr., A. B. Trotter; Dept. 91, J. M. Pegg.







AND A GOOD TIME-Michael Andrew Young and Charles Johnson (photo at | food for all, as photos center and right testify. J. R. Wilson family enjoyed barleft) didn't miss a trick at annual CRA family outing. And there was plenty of becue supper as did about 1,100 others.





WINNERS—Here are six of 20 employees who took home door prizes. In photo at left are, left to right, W. P. Dickens, S. Powell, and W. D. Bridges. At right, same order, W. L. Shelby, H. Stanberry and L. Osborne.

1,100-Plus Attend Annual CRA Family Barbecue at Rec Area

Worth employees and members of their families attended the annual family outing on June 13 at the CRA Area.

Jim Shackelford, CRA representative at large, is chairman of the plantwide recreation committee that arranged the affair. L. R. Wilson, stamp and coin commissioner, and Harry Carl-berg, bowling commissioner, are co-chairmen.

Music for dancing, Shetland ponies, and special rides helped provide entertainment for all attending the day-long event. Free balloons went to the children.

barbecue supper.

Twenty door prizes ranging tion.

More than 1100 Convair Fort | from ice chests to electric skillets went to lucky ticket holders. It was the eighth year for CRA

to arrange the annual outing, according to Finn Wahl, CRA president who assisted in handling the outing.

Luncheon Follows **Bridge on July 1**

A special luncheon following A special function following play is set for July 1 when the Wednesday Morning Bridge Club meets at the CRA Building.

Masterpoints will be given July 1 during the duplicate play.

Convair women who plan to attend with March 1988.

Free bubble gum and soft tend may contact Mrs. C. J. Hall, drinks supplemented a buffet PE 8-7819 or Mrs. E. E. Black, CI 6-1788 for additional informa-

Model Flyers Go to Tulsa

A group of model plane enthusiasts will head for Tulsa over the Fourth of July weekend to participate in a contest there.

Also on the agenda for the flyers is the National Model Airplane Championships in Los Angeles. Several Convair Fort Worth modelers plan to fly in the meet during the last week in July.

mont Stewart Lee won first place in both 1/2 A and B class free flight events. Bill Bell took

flight and a second in A-B junior. Lee took a second place in A-B open in a four way fly off. Bill and Betty Bell won a third place in Nordic A/2.

Convair employees interested in the model plan activity are urged to contact the CRA office,

Convair Recreation Association events in the next two weeks are listed below. Read-ers interested may clip this column and save it for reference until next issue of Convairiety. For more information, phone CRA office, ext. 2771 at Fort Worth, ext. 424 at Daingerfield. Wednesday, July 1 **Fort Worth**

Activities Calendar . .

Tonight, June 24

ASTRONOMY: picnic and lecture, 6-11
m., CRA picnic area No. 2.
BRIDGE: duplicate session, 9:30 a.m., ranch area, CRA.

CAMERA: color slide contest, 7:30, RA.

CRA.

RANCH ACTIVITY: calf roping, 6-8

RANCH ACTIVITY: calf roping, 6-8

CRA.
CAMERA: color slide contest, 7:30, CRA.
RANCH ACTIVITY: calf roping, 6-8 p.m., ranch area, CRA.
SOFTBALL: engineering league play, 7 and 9 p.m., CRA.

Thursday, June 25 ARCHERY: shoot, 7-10 p.m., archery range, CRA.
RADIO: operating night, 7:30 p.m.

RADIO: operating night, 7:30 p.m., CRA.
RANCH ACTIVITY: riding class, 4:30-5:30 p.m., ranch area, CRA.
SOFTBALL: second shift league play, 10:30 a.m.; engineering league play, 7 and 9 p.m., CRA.
SQUARE DANCING: classes: beginners 7 p.m.; advanced 8:15 p.m., CRA.

Friday, June 26 BRIDGE: class, 10 a.m.; duplicate session, 7:45 p.m., CRA.
RANCH ACTIVITY: cutting, 6-7 p.m.; roping, 7-9 p.m., ranch area, CRA.
SOFTBALL: Convair league play, 7 and

Saturday, June 27 ASTRONOMY: work parties, 9 a.m.-2 p.m., CRA.
BOAT CLUB: outing and cruise, Garza Little Elm.
RANCH ACTIVITY: riding classes, 9 a.m., ranch area, CRA.

Sunday, June 28 RANCH ACTIVITY: cutting, 4-6 p.m.; ranch area, CRA.

Monday, June 29 MOVIE: "Francis Goes to West Point" with Donald O'Connor. Shown lunch period, 50-foot aisle.

Tuesday, June 30

RANCH ACTIVITY: cutting, 6-8 p.m., ranch area, CRA.
SOFTBALL: Convair league play, 8 and 9 p.m., CRA.
TABLE TENNIS: tournament, 7:30 p.m., CRA.

ASTRONOMY: work parties, 7:30 p.m., CRA. BRIDGE: master point session, 9:30

ange, CRA.
ART: class, 7-10 p.m., CRA.
RADIO: operating night, 7:30 p.m., RADIO: operating mgm, 7.00 p.m. CRA.
RANCH ACTIVITY: riding class, 4:30-5:30 p.m., ranch area, CRA.
SOFTBALL: second shift league play, 10:30 a.m.; engineering league play, 7 and 9 p.m., CRA.
SQUARE DANCING: classes: beginners, 7 p.m.; advanced 8:15 p.m., CRA.
Fridav. July 3

Friday, July 3

RANCH ACTIVITY: cutting, 6-7 p.m., roping 7-9 p.m., ranch area, CRA.

Saturday, July 4

RANCH ACTIVITY: riding classes, 9 a.m., ranch area, CRA.

a.m., ranch area, CKA.
Sunday, July 5
RANCH ACTIVITY: cutting, 4-6 p.m.; roping, 8-10 p.m., ranch area, CRA.
Monday, July 6
MOVIE: "All That Heaven Allows" with Rock Hudson and Jane Wyman.
Shown lunch period, 50-foot aisle.

Shown lunch period, 30-100t aisie.

Tuesday, July 7

MODEL AIRPLANE: control line business meeting, 8 p.m., CRA.
RANCH ACTIVITY: cutting, 6-8 p.m., ranch area, CRA.
SOFTBALL: Convair league play, 7 and 3 p.m., CRA. 9 p.m., CRA. STAMP: auction, 8 p.m., CRA. TABLE TENNIS: play, 7:30 p.m. CRA.

Wednesday, July8 BRIDGE: duplicate session, 9:30 a.m.

In recent contests in Beaua third place in B event.

At Longview, Faust Parker won a first in ½ A junior free

Daingerfield Studies Activity Proposals

cussed at the June meeting of son and D. D. Sowders won by the CRA Daingerfield employee forfeit. council.

W. H. Robinson, president, said Jim Christian will present information on a proposed boating club at next meeting of the coun-

After J. R. Nazzal inquired about possibility of a class in ballroom dancing, the council decided to survey employees to determine their interest in bowling, ballroom dancing and other possible activities.

Commissioners in their reports indicated that employee interest in various activities is at a high level, with excellent turnouts for all events.

Is it news? Then grab a telephone and call Convairiety



Golfers Work to Complete CRA Second Round of Tourney Play

week of play in the plantwide golf tourney this week. Second Richard Bulmar won one up over matches were to be played by

Third matches are to be played ler. by June 30 and fourth by July 7.

No results were available at Convairiety press time in championship and first flight play.

In second flight, Mike Muncy won four-three over C. A. Frayer. R. H. Hands won one up in 23 holes over Art Skau. R. R. Christensen won four-three over Henry Ellis and W. H. Hill won two to one over Roy Knepper.

O. L. Whittaker won three to four over J. D. Ashby and E. H. Lowes won three to two over H. D. Yandell. E. T. Smith won eight-six over C. L. Hicks and R. C. Odom won by forfeit.

In third flight, B. P. Johnson won by forfeit and C. W. Gattis won four to three over R. E. Hands. A. W. Johnson won by forfeit and M. E. White won five to three over H. L. Kruse. J. O. Owens won one up over H. E. Frazier and W. L. Conly won needed. over Lewis Hestla. T. C. Wide-Conva ner won six-five over C. B. Clark and R. E. Van Dyke won over H. W. Frazier.

In fourth flight play, H. H. Walker won three to one over Clyde Van Winkle. H. O. Davis won two to one over B. W. Browning. J. C. Allen won six-five over W. O. Sunnafrank and R. G. Gordon won by forfeit. J L. Zelko won two up over K. E. Possibility of new CRA activities at Daingerfield was dis-

In fifth flight, R. D. McClure won over D. E. Rogers and B. C. Curl won over B. V. Zuber. C. W. Wooten won over L. E. Clemmer and B. S. Goodson won over Roy Allen four to three. W.

Bombers Lead in Softball League

The Bombers were leading the places. league in Convair Fort Worth softball play this week.

They have three wins and no losses. Rockets are in second place with two wins and one loss. Pipe Twisters are third with one and one.

Danny Wall of the Rockets pitched a no hitter against the Props on June 6.

And Bobby Curl of the Bombers had a no hitter to his creait

Convair Fort Worth golfers L. J. Williams won one up over were completing their second C. G. Wood and W. M. Anderson won two up over P. D. Matney. M. P. Flynn and R. E. Smith won seven to six over R. L. Kel-

23 Openings in **New Navy Unit**

Five Convair Fort Worth men are interested in contacting other Convair men who qualify for a new navy reserve unit.

A new Bureau of Aeronautics Reserve Training Unit is to be commissioned in Dallas soon and 23 pay billets are open to qualified Naval Officers.

Personnel will be assigned according to formal education, naval experience and current civilian qualifications.

Officers with college degrees in aeronautical, mechanical, electrical or chemical engineering and metallurgy are particularly

Convair men interested in the new unit may contact H. F. Allen, WA 3-6909; C. A. Glauber, PE 2-1071; E. W. Snowden, CR 4-4142; and H. L. Ellis, WA 6-1523; and J. M. Hayes,

Leta Black Leads In Bridge Tourney

Leta Black, Henry Weltman Gene Black Ilnished in the top three places in the last six weeks of play in the CRA Bridge

According to O. B. Davis, CRA bridge commissioner, a player's score is kept each week. The person with the highest average for the six weeks wins. But only five scores are used, so a person may discard his lowest score or may miss a session.

Davis said master points are also given for the top 15 to 20

"A special feature of the sessions is the bridge discussions that precede them," said Davis. "Gene Black leads the discussions and we find them interesting and informative.

"It's a good opportunity to pick up helpful information that is not available in many classes and books."

Davis invited all Convair Fort Worth employees interested in too. He pitched the no hitter duplicate play to attend the Frion June 9 against the White day sessions starting at 7:45 p.m.





BOOT-MAKING—In top photo, W. A. Hoket of FW Dept. 74 assembles boots and fire curtains for B-58 wing while below are Lela P. Akins, left, and Ida D. Jordon, also Dept. 74, operating special sewing machine which uses special thread with wire center. Machine will sew material up to half an inch thick.

New Fire Curtains in B-58 Wing Okay For Heat up to 500 Degs.

They have put up new cur- grees Fahrenheit, and will remain tains in the delta-winged Hustler flexible and chemical-resistant at this spring at Convair Fort Worth, but the curtains will be in style in all seasons and even Fire curtains pre in temperatures up to 500 degrees Fahrenheit

They are special "fire curtains" used to seal off the wing equipment tunnel as an additional safety feature, making a fire in the area a remote possibility.

The curtains are made of wire reinforced asbestos material coated with a special Viton A compound developed by DuPont. The Viton coating is chemical and heat-resistant.

Curtains coated with the new

sustained temperatures up to 500

Fire curtains previously were coated with Neophrene rubber compound which was adequate in most respects, but lacked the high temperature qualities desired for the B-58.

Fire curtain material capable of standing these high temperatures had not been developed for earlier aircraft, nor had machines for fabricating such curtains been developed, according to Homer Williams, wing group design engineer.

Dept. 74 sewed the detail parts material will stand flash temperatures in excess of 1,000 dehorsepower sewing machine!

Mobile Flight Control Device Will Do 700 Tests in an Hour

Liggitt. "In a few words: the

Additional units will be built for use on the Convair Fort Worth B-58 flight line, and for delivery to the Air Force for use

SMU Requires Entrance Uuiz

Convair Fort Worth employees planning graduate study in engineering in the Southern Methodist University program must take entrance examinations this sum-

Under the new system, prospective students must successfully complete the examination. file formal application with the graduate office and submit an official transcript of all college or university credits previously earned.

Entrance exams will be given at 8:30 a.m. July 18 and July 25 in Fondren Science Building at SMU. Cost is \$6. Deadline for registration for the first test is July 11 and July 18 for the

All pre-registration requirements must be completed by Aug. 1 for students to be considered for the fall semester.

Additional information about graduate study is available from six feet wide and seven feet high. H. C. Anderson, ext. 3541.

(Continued from Page 1) In time, plans are to work out been surprisingly successful," said procedures by which the unit, in 15 minutes after a B-58 flight, can determine if flight control systems are ready for combat again.

This is because the sequence of test operations is called out automatically by punched tapes running on the unit. The unit, in turn, hooks into the B-58 flight control systems through five cables which carry a total of 290 Fire Victim Adds His

Some of these tie into a controller box the operator uses in the cockpit. Lights flashing on the box tell the operator exactly which switches and controls to operate-and when.

If the particular item is functioning properly, the controller box tells him when the test is complete-and what test to run next . . . and so on through the entire series.

"And if the test shows a malfunction, the unit helps technical people to locate the difficulty and speed up corrective action," said Liggitt.

Normally at least one operator would be at the controls of the test unit, and one in the cockpit. It is possible, however, for one man to start the test unit, then go to the cockpit and conduct the entire test himself.

The maze of electronic equipment is contained in a console type trailer about 10 feet long, It weighs upward of 4,000 pounds.

CRA's Council To Be Honored At Clubhouse

Frank W. Davis, Convair Fort Worth manager, will be host at a Convair dinner honoring Convair Recreation Association and CRA Council members Friday, June 26, at CRA Clubhouse.

This is the 10th annual recog-

Davis will be principal speaker. F. E. Chambers, manager of industrial relations and security, will be master of ceremonies.

Approximately 225 are expected. Invitations went to certain Convair corporate officers and wives, Convair Fort Worth management personnel and wives, CRA Employee Council members and wives and special guests.

Special feature of the evening will be presentation of the Eugene Crosier Award. It will go to the year's outstanding CRA activity. Crosier was assistant supervisor of employee services and an active booster of CRA until his death in 1956.

The affair begins at 6:30 p.m. with a social hour. Dinner is at 7:15. Curley Broyles Orchestra will play for dancing after din-

RECREATION AREA TO CLOSE JUNE 26

Convair Recreation Area will be closed all day Friday, June 26, as preparations are made for the annual CRA recognition dinner. The area will be open only to invited guests.

FIREMAN ADOPTS ORPHAN BUNNIES

Convair Palmdale had its own little "Chavez Ravine" incident recently while workmen were grading facility grounds.

The ruthless blade of the grader destroyed the home of two infant bunnies who scrambled to safety just in time and were rescued by the grader operator. No trace of their parents was found so the two homeless orphans were taken in hand by a Convair fireman, Art Kelly (Dept. 323-1).

At last report, the baby rabbits were thriving in the Kelly home on raw lettuce, carrots, alfalfa

MANAGEMENT CLUB TO MEET TONIGHT

Convair Fort Worth Management Club members will meet tonight, June 24, at Ridglea Country Club to hear a talk on "Three Dimensional Confidence.

The speaker, Dr. Kenneth Mc-Farland, educational consultant for General Motors Corp., will discuss experiences and ideas collected during 24 years as a school executive.

Plant engineering, headed by Frank Clayton, will sponsor the session open to members only.

Ihanks to Associates

B. W. Gresham, Convair Fort Worth Dept. 63 fire victim, also has asked Convairiety to express his thanks to all Convair employees for their help during his recovery from burns suffered in the B-58 fire.

"I especially want to thank fellow employees in Dept. 63," he said. "My family and I really appreciate everything everyone has done for us since the fire.'



"Don't worry, Mr. Busch! I'm you're going to make it over NOW." purchase order termination.



BIG SWITCH—Here Adona Napier, daughter of G. L. Napier of Dept. 7, makes switch from model airplanes to music.

Champ Retires

Model Plane Winner 'Grounded' As She Turns to Music Career

Napier, 17, daughter of Convair headed for a free scholarship Fort Worth's George Napier of summer at Kansas University Dept. 7-0, is permanently where the Midwestern Music and "grounding" herself to concen-Art Camp will be in session with trate on music.

The versatile Adona, whose house runs over with trophies first year to win at Tri-State from model airplane contests Music Festival, she's been active throughout Texas, hopes to win just as many music medals. They take up less room.

Off to a good start, she just returned from Oklahoma's annual Tri-State Music Festival with a fist full of new awards.

A combination trumpet and voice student, she took third place in first solo trumpet among some 10,000 participants and was chosen first division in her classification in voice.

As result of her outstanding and boys in model airplane races.

Model airplane champ Adona work at the festival, she's now over 32 states taking part.

Although this was Adona's musically for several years. She was chosen two years for the All Girl Band at Texas Women's University in Denton and received a superior rating at TCU for her vocal efforts in the Federated Music Club contest.

President of the Junior Har mony Club of Fort Worth, Adona is also president of the Bell High School band. Until music became her only thought, Adona was active in competing against men



MATERIAL CLASS-Material control is subject being presented in material department class at Convair Fort Worth by T. O. Walthall, C. R. Schuler and J. H. Deitzer at front of classroom. Forty students are in class.

More Than 100 Attending Class On Material Procurement

Some 125 material department supervisors, buyers and follow-up special training courses aimed at

S. E. G. Hillman, manager of material, said plans are now being made to expand the training program for all material department levels and functions.

"In these days of ever rapidly increasing changes," said Hillman, "it is more important than ever before for material procurement and control people to keep abreast of latest practices and techniques."

are held both on topics directly amination. related to jobs and on closely related topics. For example, procurement procedures, cost reimbursement type purchase orders,

Besides the buyer and followup classes, 99 material departmen alternate each Friday at ment people have taken short Convair Fort Worth to attend "package" courses. These include industrial economics, work simpliadvancing professional job-related know-how. fication, leadership training and writing for easy reading.

Nine other employees are taking Convair-TCU in-plant courses, while others yet are enrolled on the TCU campus.

Employees Reminded Of 31-Day Ruling

(Continued from Page 1) If an employee re-marries, he has 31 days to add his wife and Buyer and follow-up classes step-children without physical ex-

Any change in the beneficiary of an employee's group life insurance, due to death, divorce or other reasons, can be made only fixed price purchase orders and by the employee himself at the employee services section.



Fort Worth and Daingerfield

EDITION

Fort Worth news office: ext. 2961; Daingerfield news office: ext. 424

SAN DIEGO, POMONA, ANTELOPE VALLEY, VANDENBERG AFB, CALIF.

AFMTC, CAPE CANAVERAL, FLA., FORT WORTH, TEX.



Col. Richard Evans

Evans to Leave Post as Head of **B-58 Test Force**

The first Strategic Air Command officer ever to fly a B-58 Hustler supersonic bomber is leaving the B-58 Test Force.

Col. Richard E. Evans, deputy commander of the B-58 Test Force at Carswell AF Base since June in 1958, will be succeeded Aug. 15 by Col. James K. John-

Colonel Evans, in addition to being deputy, was commander of the 3958th Operational Evaluational and Test Squadron. The squadron flies test model B-58s.

Colonel Evans began his Air Force career in 1939 and won his wings in 1940 upon completing flight training at Randolph and Kelly Fields, Texas.

His successor will come to Carswell from Forbes AFB, Topeka, Kan., where he commands a squadron of RB-47 reconnais-

Donors of Rare Blood Quick to Answer Appeal

Within 22 minutes after being notified, three Convair Fort Worth people with rare blood types were on their way from the plant to Johnson County Memorial Hospital 35 miles away in Cleburne to help a fellow em-

The Johnson County Hospital had exhausted its supply of the rare type A negative that morning at 3 a.m. and had called upon Fort Worth hospitals with no success. Only one pint could be during the past year. located.

spital called me abou 8:30 a.m. that morning," said M. A. (Milt) Stewart, CRA welfare commissioner. "We thumbed through our blood files and had three donors on their way by 8:52 a.m."

Stewart and the donors arrived within the hour at the Cleburne Hospital, where doctors and lab technicians were waiting.

Since then several other Convair people have been helping on the case. Instead of making the trips to Cleburne, they've been going to All Saints Hospital blood bank.

"This is a good example of how efficient our Convair blood system works," Stewart commented. "We've had more than 16,000 pints furnished Convair employees and their immediate families since the operation began ten years

Employees willing to list their names for possible blood donations if called upon to assist a fellow Convair employee are invited to sign up at CRA office or with Stewart.

'Silk Stockings' Stars Entertain At CRA Dinner

(Photos on page 6.)

Convair Fort Worth CRA Council members witnessed a "command performance" as stars from Casa Manana's "Silk Stockings" dropped in to entertain at the tenth annual Convair recognition dinner for CRA.

Division Manager Frank W. Davis handed out everything from verbal bouquets to an "electric chair" as he lauded council members for a job well done.

Pointing to outstanding CRA events throughout the year, he recalled last fall's Con-Fair which drew more than 17,000 people, and the plantwide Easter egg hunt.

The CRA astronomy club was commended for work on its astrodome and telescope, and bouquets were thrown to the new ranch shelter scheduled to open sometime in September. Plans were also mentioned for a proposed CRA Theater.

Davis, host for the dinner honoring the council, presented M. A. (Milt) Stewart with an "electric chair" to recognize his service to recognize his service as CRA president. The chair is a "relaxing vibrator."

"I certainly do appreciate this," Stewart said with his acceptance. "There isn't any gift more appropriate for an outgoing CRA president."

Stewart added that the CRA Council, with help of Convair management, had one of its most

successful years.

The annual Eugene Crosier
Award for CRA's top activity
was presented to Commissioner B. T. Frost of the boating and skin diving club.

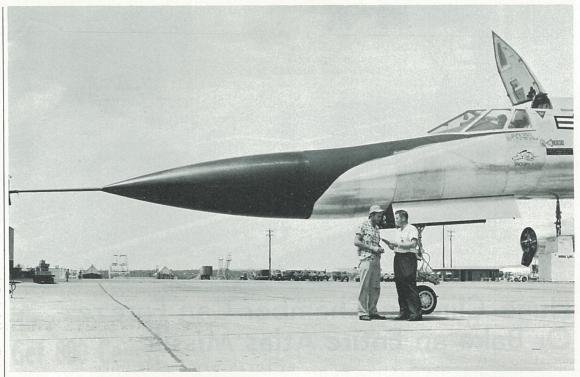
Finn Wahl, new CRA president, presented Davis a western style hat as a gift from the council. Remainder of the evening was filled with dancing to music of Curley Broyles' orches-

As a surprise feature, stars from Fort Worth's Casa Manana "Silk Stockings" musical per-

formed for guests.

Director Michael Pollock brought along principals Virginia Martin, Mace Barrett and Sylvia Miles, who did informal numbers from such shows as "Oklahoma,"
"South Pacific," and "Brigadoon.'

The dinner is an annual affair and gives management an opportunity to formally recognize the hard work and imagination that have marked CRA Council efforts



SNOOPY—Convair B-58 Hustler, modified at Convair Fort Worth with radome which will be used for testing F-108 control systems, results in "drooped snoot" effect. Left to right, W. C. Cogburn and Assistant Foreman A. J. Meyers Jr. check ship prior to test flight.

Material Man

Largest Employee Suggestion award ever made to an individual Convair employee was approved last week at Convair Fort Worth for J. D. Keel of material.

Total award, if savings are still being made at the end of six months, is \$3,191.50.

First installment Keel received was made up of four checks totaling \$1,595. It was presented by Roy Gallagher, spares man-

Keel's suggestion was to eliminate duplication of work by reducing the number of forms required on numerous operations.

"This not only reduces duplica-tion of effort," said M. J. Scott of the suggestion section, "It also tends to speed up and increase efficiency of our operations."
Estimated first year savings as

result of Keel's bright idea are \$31.915.

Other big winners in the ES program recently-all with \$100 awards or more—are: G. C. Williams, Dept. 81; J. D. Cusack, Dept. 64; W. W. Scoggins, Dept. 46; J. V. Curry, Dept. 33.

A. H. Phagan, Dept. 31; J. C. Sanders, Dept. 28; J. L. Alford, Dept. 14; B. R. Fisher, Dept. 27; L. O. Gabbert, Dept. 25; H. B. Weddell, Dept. 14; T. R. McAlindon, Dept. 6.

Long Nose Added To B-58 For Role In F-108 Program

modified supersonic B-58 Hustler with a king-sized nose was due to be in flight operations at Convair Fort Worth this week F-108 test bed pod program. in preparation for later F-108 fire control systems tests.

Dubbed "Snoopy" after the canine character of the same name in a syndicated cartoon strip, this modified Hustler literally got a face lifting.

Hughes Aircraft, makers of North American's F-108 fire control system, chose the supersonic Hustler for tests because its altitude and speed are closer to the interceptor's than any other operational aircraft.

According to W. A. Bratton, assistant project engineer, the 'droop snoot" effect resulted from a number of factors: to achieve aerodynamic efficiency, to accommodate larger-size radar "dish," and to retain adequate visibility for the pilot.

He said all of the Hustler's bomb-nav equipment had to be removed as well as many instruments. These items will be replaced with F-108 equipment.

"Since the plane couldn't hold "Since the plane couldn't hold all of the equipment, an exterior pod also was designed to house thurkes 'black boyes' the cooling."

Davis and B. G. Reed, assistant all of the equipment, an exterior Hughes 'black boxes,' the cooling system, etc.," he added.

Bratton says the modification will extend through the latter Children's Hospital part of next month.

* * *

electronic instrumentation pod to support the test program for the Air Force's F-108 was completed at Convair Fort Worth recently.

The pod, designed by Convair Fort Worth engineers and built by development department crews, went by air to Hughes Aircraft Company, Culver City, Calif., for installation of additional instrumentation.

In August, a modified B-58 will take another similar pod to Hughes, then to Edwards AF Base where testing will be continued.

"Testing is to check out as completely as possible the fire control system for the F-108," Total number

John Jerotz, Hughes engineering representative, is assigned to Convair Fort Worth during the

Ninety Member 'Quality Crew' On B-58 Named

(Photos on page 8.)

Lucky 13, a B-58 Hustler with four successful pod drops over Holloman AFB range in New Mexico, also brought luck to its 90-man Convair Fort Worth service and maintenance crew.

The three groups (one on each shift) composed the first "quality crew" and members are now sporting new quality crew caps and lapel pins. They are from Depts. 29, 6, 64 and 75.

According to Verl Evans, project liaison in Dept. 64, the crew is planning to put a quality decal on the aircraft.

The first quality awards were division manager.

Gets Con-Trib \$500 Delivery of a specially designed For Therapy Program

Five hundred dollars from Convair Fort Worth's Con-Trib-Club went to W. I. Cook Memorial Hospital Center for Children last week in support of the Red Cross occupational therapy program

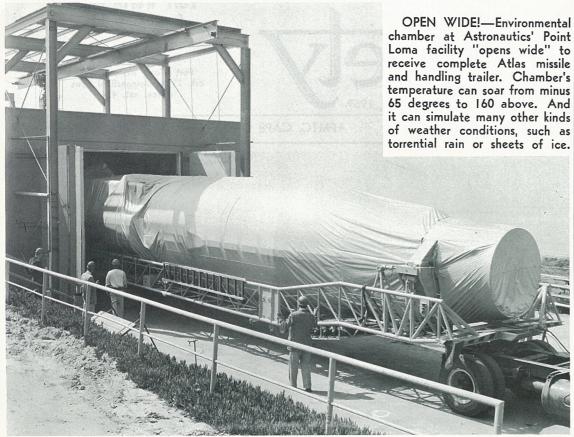
This was Convair's third such gift. All supplies used by the volunteer Red Cross arts and skills group workers for children at Cook have been underwritten by Con-Trib.

Because of volunteer work and Con-Trib money, afflicted youngsters are not charged for instruction and entertainment through

Total number of Con-Trib dolsaid W. A. Bratton, assistant lars that have gone to Cook hosproject engineer. lars that have gone to Cook hospital from Con-Trib is \$6,250.



RECORD-BREAKER-J. D. Keel of Dept. 21-2 recently received record Employee Suggestion award of \$3,191.50, half payable now and balance if savings still are being realized after six months. Roy Gallagher, spares manager, is handing over checks totaling \$1,595. project engineer.



Huge 'Climate' Chamber Can Freeze Or Bake an Entire Atlas Missile

BY BRYAN WEICKERSHEIMMER Convairiety News Editor, Astronautics

heat or duplicating maximum temperatures present when an Atlas missile blasts off are every day chores to a select group of Convair Astronautics men. These feats are performed regularly by Astro personnel as-

TESTING—At top are V. W.

Palmer and W. J. Harden, both

Astro Dept. 756, in asbestos suits

for hot work inside environmental

chamber. Below, section of missile that normally breaks away in flight takes planned "tumble"

signed to its Point Loma test site near San Diego. Since 1954 when Point Loma became the first Atlas missile test site, they have simulated just

about every conceivable operation involved in the Atlas weapon system and its support equip-

Toward this end, Astro has assembled at Point Loma one of the greatest arrays of missile test equipment known to the free world. Some of the jigs and fixtures used are common to all test programs, others have been fashioned specifically for the Atlas program. All are "tools" of the test engineer. Latest addition is a unique en-

vironmental chamber.

ditions as required, or it can make "rain" at the rate of five into net. Latter operation is conducted in special building where cameras record action. The chamber can also "brew" its own air supply. Closed circuit television makes Net prevents damage as sections observation of special areas possible, while peep holes from the

Measuring 89 feet long, 20 feet wide and 16 feet high, the chamber can hold an entire Atlas missile and its handling trailer. Or it can be used on single components or groups of components. The chamber can be turned into a giant "refrigerator" with interior temperatures of minus 65 degrees. And it can become an "oven" with up to 160 degrees with up to 160 degrees heat and 95 per cent relative humidity. A sprinkler system can produce high humidity or icy con-

HOT! HOT!-R. C. Hinck, group engineer in charge at Point Loma facility, makes note beside one of many batteries of heat

Creating sub-zero cold, tropical | control room add to visibility. However, most large tests require entering the chamber. For

these special cold weather gear or asbestos suits are used as necessary. The latter contain their own hose couplings for fresh

Current tests are being made on an Atlas handling trailer. All working parts are being checked under temperature extremes. In time, Astro plans to demate, then remate, an entire missile during tests. In the planning stage is a program involving test of a complete van-like missile check-

out trailer.

Another building at the site is used for separation tests. Systems which normally break away during flight are hoisted together to the top of a tower. Below, like a giant fish net, is a catching device. Inch-thick rope strands form a strong, web-like netting. About 160 feet in circumference, the net is secured on posts, can be raised and lowered. During tests, as cameras record each step, the break away items are separated, the lower section falling into the net below. In this manner, the same units can be retested time and again.

A smaller building boasts a power sub-station large enough to supply 100 normal homes. It

is used for thermodynamic tests. More than 1,800 heat lamps, arranged in banks, are placed scant inches from the test section. As power is increased, they become concentrated heat sources, duplicating and exceeding temperatures present as the missile builds itself to full speed after personic bomber.

with small hydraulic cylinders exerting pressure at various points. Other tests in this area in-

volved umbilical cord operations. Towering above all other structures at the site is a facility for conducting fuel flow tests on

many types of Atlas tanks. Liquid oxygen is allowed to flow via a special trough to the ocean nearby. The resulting vapors create a ghost-like fog often visible for miles around.

SD's Garner Green Attends Testimonial

Garner G. Green, chief structures engineer at Convair SD, was one of the speakers at the recent testimonial dinner held in Los Angeles for Dr. Alfred S. Niles, retiring aeronautical structures professor at Stanford University.

A member of Dr. Niles' first class at Stanford, Green spoke on the well-known professor's early days in aircraft at McCook Field. now Wright-Patterson AFB.

OPEN WIDE!—Environmental Convair FW Builds Test Duct chamber at Astronautics' Point Loma facility "opens wide" to receive complete Atlas missile Convent Fort Worth may goon in diameter

Convair Fort Worth may soon | in diameter. be producing some of the components for a 12½-billion electron volt synchrotron "atom smasher" being built in Argonne will hold a near perfect vacuum. National Laboratory near Chi-

A test section of ducting for the inner vacuum chamber of the synchrotron was shipped to Argonne last month.

When the design and fabrication is checked out, Convair hopes to win a contract to fabricate the complete ducting system.

"Convair has a head start in this work because of our prior experience both in nuclear work, and our work in bonding large metal and fiber glass parts on the B-58," said Bob Thompson of manufacturing research and development.

The synchrotron will be used to bombard atoms with electrons that have been speeded up to near the speed of light—186,000 miles per second.

This is done, Thompson explained, by injecting a stream of electrons into the vacuum chamber, then pushing them along by "squeezing" them through an electromagnetic field much as an the room by squeezing it between the thumb and fingers.

The test section was only three feet long. But the production ducting will be 54 feet long and bly of ICAO, an United Nations will arc. Eight pieces will join agency, represent 74 member together to form a circle 150 feet | nations.

Assisting manufacturing research and development engineers on the project were engineering department's nuclear engineers and materials and processes engineers. Tooling was made by Dept. 81-08. Actual fabrication was performed by the radome section of Dept. 35.

Visitors to SD See 880, F-106

Delegates to the 12th assembly of the International Civil Aviation Organization now meeting in San Diego saw Convair's 880 jet transports and F-106 all-weather jet interceptors move down production lines on their tour of Convair San Diego plants this

B. F. Coggan, Convair vice president and San Diego Division manager, welcomed the 120 visitors in the 880 mockup building electromagnetic field much as an before the tour Monday (July 6) orange seed can be shot across through Plants 1 and 2. They were briefed on the 880 jet transport by C. G. Wolcott, domestic sales manager.



ATOM SMASHER-Bob Thompson, left, and J. C. Perry make final inspection at Convair Fort Worth of test section duct destined ultimately for use in "atom smasher" at Argonne National Laboratory near Chicago.

TV Tape Recorder Used To Preserve B-58 Data

Television networks—with the new video tape recording systems sary.

"The video tape process will "The video tape process and "The video tape process and "The video tape process will "The video tape process" "The video tape process will "The video tape process" "The video tape process will "The video tape process" "The video tape process will "The video tape process" "The video tape process will "The video tape process" "The video tape process will "The video tape process" "The video tape process will "The video tape process" "The video tape process will "The video tape process" "The video tape process "The video tape process" "The video tape process" "The video tape process "The vi Worth.

Identical video tape recorders are getting trial runs this month to adapt them to record test data on electronic countermeasures systems on the B-58 Hustler su-

TV networks to tape both picture ground radars as before and sound for rebroadcast.

But at Convair Fort Worth, they're used to record and preserve ground radar data obtained during vital B-58 flight tests.

The tapes can be played back immediately-or at a later dateto enable engineers to study re- fications on the recorders.

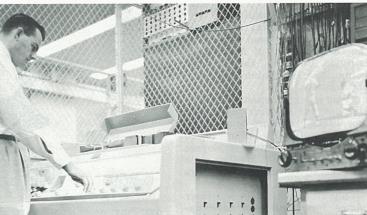
Television networks—with their | sults as long as may be neces-

result in considerable time and cost savings in the B-58 flight test program," said H. T. Stucker, electronics laboratory supervisor.

"Now that test results can be recorded and studied later on the Convair's two recorders are the screen, Hustlers won't need to Aerodynamic tests were per- same as those used by national make as many test runs against

One of the Convair recorders is located in the electronic systems lab, and the other is to be used in a mobile trailer unit.

Two of the laboratory engineers, D. D. Johnson and A. C. Baswell Jr., are performing modi-



CONVAIR TV-Convair Fort Worth's D. D. Johnson, aerophysics engineer, "rebroadcasts" major league ball game in test of new video tape recorder. Recorder is used in B-58 flight test program.



FIRST "GRADUATES"—Grouped around cockpit procedures trainer at Convair SD are TWA personnel, first customer class to complete Convair 880 training course in preparation for delivery of first plane this fall. Left to right are G. A. Hibbeler, E. S. Gooch, J. R. Mueller, M. S. Antes, J. J. Harris, J. B. Buckmaster, C. L. Johnson, Convair SD production flight engineer-instructor, H. C. Claxton, and W. W. Williams. D. M. Crowley, manager TWA ground school, was not present.

New Harness, Ejection Seat For B-58 Tested

A new harness for the B-58 checks opening of the parachute Hustler ejection seat was due until the crew member free falls back at Convair Fort Worth this to 15,000 feet. month after exhaustive tests at Philadelphia Naval Yard.

Principal feature of the refined and improved seat is a harness of straps which holds a crewman's arms, legs and body firm as he ejects from the aircraft.

Another new device automatically holds the crew member's head steady during ejection.

The suit is believed to be the first in the industry to incorporate the new type rigging.

It was tested in the Air Crew Equipment Laboratory in Philadelphia as another step toward an improved escape system for B-58 crews.

Harness previously had been tested in actual flight four times. This was from the aft seat of an F-94 flown in test flights by Wright Air Development Command.

Further tests will be at Convair Fort Worth and the Air Force's Hurricane Supersonic Research Site sled track in Utah, according to J. E. Hickok, project test engineer.

The seat features a rocket catapult as well as the new type harness.

'The rocket catapult system is a significant improvement over the present ballistic type," said Tino Sierra, project design engineer.

'The rocket catapult ejects the crew member up-and then forward. It also sends the crewman higher to assure safe clearance of the aircraft, and improves safety in low altitude ejections."

At all times while crew members are in the B-58, they'll be "hooked up" to the new harness. The harness, in turn, is attached to a survival kit fastened to the

To eject, the crew member pulls on seat hand grips to ready the harness for ejection. He then needs only to squeeze one trigger. Milliseconds later the rocket motor fires up and the man is riding a "flying seat."

At a safe distance from the aircraft, the lap belt opens, the seat falls away and the parachute automatically opens-if the pilot is below 15,000 feet. If above that altitude, a special device

Reliability Section In Operation at FW

Quality control reliability activities at Convair Fort Worth are now being handled by the newly created Dept. 27-7.

The new section, under supervision of D. W. Ascherin, is administratively responsible for the collection, analysis and reporting of reliability data on B-58 subsystems.

Growing emphasis being placed on reliability necessitated formation of the new section.

Development of the new seat is the prime responsibility of the furnishings design group in engineering which reports to Max Martin. Flight test and engineering test lab personnel are responsible for testing.



IN HARNESS-Floyd Foreman, Dept. 36, demonstrates position B-58 crewmen would be in while descending in parachute.

Nine From TWA Get 880 Course

Nine TWA training personnel, who will indoctrinate TWA flight crews, flight engineers, and pilots in operation of the Convair 880 jet transport, have completed the first customer training course given by production flight department at Convair SD.

The five-week course, which ended July 2, covered general familiarization, systems operations, flight characteristics, and aircraft performance, said P. H. Selby, flight training supervisor.

Included in the intensive course was ten hours per man in the 880 cockpit procedures trainer. "All of our first 'students' expressed themselves as greatly impressed with the value of the trainer," said Selby.

Part of the group, together with several TWA performance engineers, are remaining at Convair SD this week to make up a class of ten for a one-week performance engineering course given by SD aerodynamics group.

Convair men, all production flight engineer-instructors, presenting 880 material are C. L. Johnson, who teaches instruments, electronics, electrical; L. J. Rice fire detection and extinguishing, fuel systems, power plant; W. B. Van Houten, airplane general, flight controls, emergency equipment; C. J. Falkenthal, hydraulic and adverse weather systems, air conditioning and pressurization; L. M. Norton, aircraft performance and flight characteristics. L. W. Hughes is training coor



CHECK-OUT-J. E. Hickok, seated, and R. L. Roper, both Dept. 6-7, check out leg restraints and other equipment on new type B-58 ejection seat.

Novel Shock Absorbers Protect 'Passengers' in Simulated 880 Crashes

crash landing force.

"But the dummies in the seats during tests are absorbing only what would result in a headache for a human," said A. R. Vollmecke, assistant group engineer in charge of dynamic tests of 880 passenger seats.

Results showed that the 880 seat backs will crush before passenger injury could occur, explained Vollmecke, easing the effect of rapid deceleration.

Seats for the 880 jet transport, being made by National Seating Co. of Mansville, Ohio, will be of an improved ductile sheet metal design. The material yields enough to allow impact to spread

over a large area.

Rubber and steel dummies, weighing 170 lbs. each, have been belted into seats made to production specifications by Convair SD experimental department. Seats, fastened to a large platform, were dropped via a pendulum attached to the ceiling of the structures test lab at the SD seastructures test lab at the SD sea-plane ramp. Forces simulated headed by W. E. Wise, group enthose of a crash landing. In static tests the seats were put under down loads which would be experienced in an extremely hard landing.

An accelerometer measured the force with which the dummies hit the seat backs at time of impact.

"Early indications of the head impact test program are that the seat back design for the 880 is even safer than that used in the Convair-Liner 340 and 440, which was recognized as a standard of safety throughout the aircraft industry," remarked H. A. Mellinger of the 880 project office.

Under test along with the seats are the seat energy absorbers developed by Mellinger and George Hendry (Dept. 6-5). Attached to

Robert Smith Shifts to GO

Robert F. Smith, chief of educational services at Convair Astronautics since October, 1958, has joined the General Office staff as an assistant to R. H. Biron, Convair vice president-administration.

He replaces M. G. Burland who has left the company.

Pending selection of a replacement at Astro, Smith will continue to direct educational services activities at that division.

Smith has spent most of his life in Southern California. He attended grade and high schools in San Diego and received degrees from the University of Southern California (B.A. and B.S.) and UCLA (M.B.A.).

Prior to joining Convair last year, Smith served the Air Force and various private businesses as a consultant on management development and other educational matters. He was also an administrator in UCLA's Institute of Industrial Relations and had been supervisor in employee relations for Ryan Aeronautical Co.

Convair FW Visited By Graduate Nurses

Fourteen graduate nurses working toward bachelor of science degrees in nursing at TCU and Harris Hospital got a glimpse of industrial medicine in action recently when they toured Convair Fort Worth's medical facilities.

Dr. J. K. Leverett, chief physician, and Margaret V. Crouch, head nurse, hosted the nurses and took them on a tour of the plant's dispensary and to one of the assembly line first aid stations.

ASTRO MAN NOW CALIF. GUARD MAJOR

William Hedrick of Astronautics' engineering was recently promoted to the rank of major in the California Army National Guard. Hedrick is radar officer of the 114th Anti-Aircraft Artillery Brigade at Camp Elliott.

A giant "swing" has been toss-| the seat belts the energy absorbing passenger seats of the Coners are designed to reduce loads vair 880 through the air with two and three times over short periods of time by absorbing the crash impact force.

Object of the Convair-developed units is to keep the loads in any emergency situation below 9g (force equal to nine times the combined passenger-seat weight), maximum load under which seats are required to endure on the 880.

The seat energy absorbers are to be in use only when needed that is by reducing short interval high forces in the range of 15 and 20g to the relatively safe levels between 7 and 9g, said Mellinger.

"The only way to keep passengers safe is to keep them in the seats and the seats firmly attached to the plane," he emphasized. "The energy absorbers will disperse forces which, otherwise, might rip seats from their moorings and toss occupants about."

Both the dynamic head impact tests and static tests have been conducted under conditions required by FAA for certification gineer. Crash energy absorption tests were part of the Convair SD research and development program beyond FAA requirements.

"Our goal is to provide 880 passengers with the very safest seat it is within our power to construct," Mellinger concluded.





'CRASH' LANDING ber and steel dummies take beating as they undergo simulated crash landings to test safety features of Convair 880 passenger seats. Upper shot shows "passengers" in seats bolted to platform before being swung pendulum fashion in recent dynamic



LOVELY-Holley Susens, 17, daughter of Fort Worth's William said Don Maxion, regional field Susens, was crowned "Miss CRA Health Club" recently. She is representative (Dept. 15-4), insenior at Amon Carter Riverside High and top English student and

Convair Nomenclature Changed For Internal Communications

clature to be used in Convair internal communication were announced last month in Convair Notice No. 81.

These changes will be incorporated into all practices, notices and manuals, as revisions are being made. However, for the present the titles themselves of Division Standard Practices and other presently named existing manuals will not be changed. An exception will be the Convair Management Manual, which will now be called the "Convair Supervisory Manual."

Changes listed are:

"Corporation" or "Corporate" will be used to refer to General Dynamics Corporation. The term "company" will not be used in referring to either Convair or General Dynamics Corporation.

"General Offices" (or "Convair-General Offices") will be used to refer to Convair's top management offices.

"Operating division" will be used to refer to any one of the

Crash Rescue Talks Popular

J. A. Hitch, Convair SD technical representative at George AFB, Calif., is responsible for introduction of a program on crash rescue which is proving popular with civic and military groups in the area.

So far he has given the talks to 16 organizations, including fire departments, local and state police, California and U.S. Forestry Service, George AFB, Nellis AFB, March AFB, and Marine Corps Base at Barstow. Other groups are asking for similar programs.

Points covered are normal entry into the F-102A cockpit, emergency entry, release of pilot from seat belt, removal of pilot sion." to prevent personal injury, general layout of the F-102A with emphasis on fuel location and armament, chemicals for use in aircraft fires, best approach to aircraft for fire trucks and personnel.

Accompanying Hitch on his presentations have been personnel of the 329th Fighter-Interceptor Squadron.

A number of changes in nomen- | five major operating facilities of Convair.

> Position titles in internal communications will refer to titles of Convair positions, unless otherwise specified.

> "Convair (or General Offices) Executive" and "Convair (or General Offices) Staff Executive" will be used to identify personnel having titles as defined in CSP 10-2.

> "Manager" will be used to refer to the manager or Convair Executive in charge of an operating division, e.g., "Vice President and Manager Convair-Pomona," etc.

> Supervisory Manual" will refer to the booklet formerly known as the "Convair Management Manual."

> "Convair Notice" will refer to Convair's system of announcements at the General Offices level.

At the operating division level, Convair's system of announce-ments (formerly "Division Notices") will be titled as follows: 'Convair-Pomona Notice," etc.

"Division Standard Practice" will continue to be used to refer to Convair's standard practice system at the operating division level. At a time at each operat-ing division when it is practical to convert the titles of DSPs to operating division Standard Practices, the titles to be used will be: "Convair-Pomona Standard Practices," etc.
Other Convair manuals con-

taining the words "Corporate" or "Division" in the title will be converted by using "Convair" at the General Offices level and "Convair-Pomona," etc., respectively, at the operating division level. This conversion will be made as these manuals are revised under normal procedures.

"The phrase "among (or be tween) operating divisions" will be used instead of "inter-divi-

The phrase "within Convair" will be used instead of "intracompany."

The phrase "within Convair-Pomona," etc., will be used instead of "intra-division."

Instructions concerning nomenclature to be used in external communications will be issued at

Cataloging of Divisions' Resources Seen as Step in Overall Reliability

reaching effect throughout General Dynamics Corporation, Dr. A. M. Small of Convair San Diego told representatives at a recent corporate reliability panel at Stromberg-Carlson in Rochester.

Dr. Small, staff specialist in engineering, gave a synopsis on reliability specification contents, then led an open discussion of what must be done.

Convair Fort Worth's J. Y. Mc-Clure, manager of quality control and chairman of the panel, discussed the reliability resources manual.

He pointed out that cataloging all corporation resources by division will help in handling overall reliability programs. This will show special capabilities of

Subcontractors Get 880 Data

Latest material on the Convair San Diego 880 jet transport compiled and developed for customers by SD transport service personnel is being incorporated in training courses given by subcontractors in other parts of the

To give 880 customers the same material with the same approach, terchange of information has been effected between Convair SD and manufacturers of 880 components. For instance, text and diagrams compiled by Harry Eddis, Ed Buckman, and Bob Fitzgerald of Convair SD are being used intact in courses on the 880's electrical systems given by General Electric Co. at Waynesboro, Va.

Several instructor personnel of the G. E. engine school at Cincinnati, Ohio, headed by E. J. Goetz Jr., supervisor of publications and training, were at Convair SD in June for the second 80-hr. course to be given a G. E. group. Information covered installation of the CJ-805-3 engine, which receive operating power from the G. E. engine.

Nuclear Plane As mentioned above, "Convair Parley Held

Members of the Scientific Advisory Committee to the Chief of Staff of the U.S. Air Force conferred at Convair Fort Worth June 26 on the nuclear powered aircraft program.

Convair Fort Worth was chosen by the Air Force in March to design the nation's first atomic powered airplane.

The committee of 13 members is headed by Courtland D. Perkins, chairman, and Colonel Clyde D. Gasser, USAF, secretary. Robert A. Widmer, Convair Fort Worth's chief engineer, is a consultant to the committee.

The group came to Fort Worth from Cincinnati, Ohio, headquarters of General Electric's nuclear powerplant.

other for help.

Progress in Convair Fort



RELIABILITY-Studying agenda for reliability panel meeting recently in Rochester are: left to right, J. Y. McClure, Convair FW, panel chairman; John J. Riordan, of Office of Assistant Secretary of Defense; L. B. Rich- bility vendor coordination. ardson, senior vice president of General Dynamics.

Reliability requirements for each division and make it possible Worth's reliability program was weapon systems will have a far- for one division to call upon an reported by Dr. N. H. Simpson, chief of reliability programming. He told of the B-58 program, the approach to the problem and gave results with illustrative charts.

Qualification testing was discussed by Convair Pomona's T. A. Vogel who emphasized that Convair's work in this field is advanced.

An "interchange of data" plan was proposed by Vogel. He pointed out that test results could be exchanged among divisions.

Others on the program included Canadair's A. B. Oxley, G. R. Hauser of Convair Fort Worth, H. F. Eppenstein of Convair Astronautics, L. B. Richardson, senior vice president of engineering for General Dynamics Corporation, and R. G. Schimpf, chief engineer, Micronics Division, Elgin Watch Co.

Also, D. R. Archibald of Convair Astronautics, S. M. Truex, office of maintenance engineering and Assistant Secretary of Defense, and J. J. Riordan, staff director for inspection and quality control, office of the Assistant Secretary of Defense.

Other Convair Fort Worth peo-

Next panel meeting will be in September at Astronautics.

All Different

'Old School' Caps Are Various **Among Nurses at Convair SD**

people are entitled to sport the emergency cases. same type of perky headgear. Besides Mrs. same type of perky headgear.

Nineteen different styles of caps, ranging from fluffy orare worn by Convair SD's efficient corps of nurses.

Designating the school from which each girl has been graduengine build-up and systems ated, the only two who finished time, having joined the company thereby wear the same kind of has been with Convair SD since caps—are Jeanette George at 1942 but has not been here the Plant 1 and Ida Hunt at Plant 2. They both took their training from Ancker Memorial Hospital School of Nursing at St. Paul,

"Our nurses have come to us from 14 different states, from Washington to Florida and from California to New York," said Frances Collier, head nurse who is a graduate of St. Mary's Hospital School of Nursing, Kansas City, Mo.

"And, though they have been trained by as many different schools as there are nurses, every one of ours is extremely well qualified for the specialized industrial work. The same high standards of nursing are maintained at Convair as at any hospital with the same code of ethics observed," she continued.

out, nurses at Convair SD must engine project. G. E. is teamed have a diversified training to be peared in exhibitions in Dallas with Convair on the project and able to handle the different types and Las Vegas. It has been modihas the job of building the atomic of work required including X-ray, fied to allow visitors to walk inlaboratory work, physiotherapy, side the base.

Only two of the 20 nurses who physical exams for hazardous watch over Convair San Diego work, in addition to first aid in

nurses are assigned to SD Plant 1 while seven are at Plant 2, and gandy to tailored stiffly-starched two stationed at Rose Conyon. linen, some with large points, One, Georgette Horton, divides small points, black velvet stripes, her time between Plant 1 and Plant 2 on the third shift.

Dorothy Chesler, assistant head nurse, has been at Convair SD the longest consecutive period of the same hospital-and in July, 1942. Mrs. Collier also

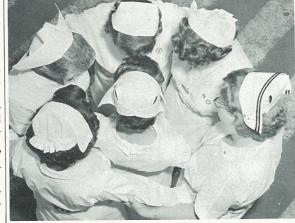
Atlas Missile Goes to Paris

A 52-ton Atlas missile recently crossed the Atlantic for the first time to make its European debut at an air show June 12-21 in

Dismantled into major sections, the Atlas was flown to Europe aboard a giant C-133 cargo plane, departing from Westover AFB, Mass. and arriving at Le Bourget Airport in Paris.

The huge intercontinental ballistic missile was part of a U.S. Air Force display at the 23rd annual International Air Show in Thirteen nations, including In fact, as Mrs. Collier pointed the Soviet Union, had exhibits.

The same Atlas has also ap-





CAPPED CIRCLE-Clockwise, Convair SD nurses, Jeanette George, Evelyn Carson, Dorothy Scrivener, Helen Werdelman, Olga Fort, and (in center) Frances Collier, show different styles of nurse's a later date, the Convair Notice caps, each representing a different school for universal identification. Nineteen schools are represented by Convair SD nurses.

NEWS FROM OTHER DIVISIONS OF GENERAL DYNAMICS CORP.

General Dynamics Corporation, created in April, 1952, as successor to Electric Boat Company, is composed of six divisions and a Canadian subsidiary, Canadair, Limited of Montreal, airframe builders. The divisions are:

Convair, head offices at San Diego, Calif., aircraft, missiles and space systems.

Electric Boat of Groton, Conn., submarines.

Stromberg-Carlson, of Rochester, N. Y., telecommunications, electronic equipment. Liquid Carbonic of Chicago, Ill., carbon dioxide producer, industrial and medical gases. General Atomic of San Diego, Calif., nuclear research, development, production. Electro Dynamic of Bayonne, N. J., electric motors, generators.

Electronic Printing To Become Popular

SAN DIEGO-New electronic printing systems for high-speed data on pre-printed forms have been announced by Stromberg-Carlson here.

S-C 5200 Systems print numbers, letters or symbols at speeds up to 5,000 lines per minute on pre-printed forms. Stromberg-Carlson sees their widespread use by financial institutions, insurance companies, government agencies and manufacturing firms for large-volume processing of such business forms as invoices, checks, statements, premium notices and inventory records.

Material Service Corporation To Become Dynamics Division

NEW YORK — The boards of | and coal, will become a major diregistered printing of computer directors of General Dynamics Corporation and Material Service Corporation announced last week unanimous approval of the merger of their respective companies. The proposal provides that General Dynamics' acquisition of Material Service Corporation will be financed through an exchange of stock. Share owners of both corporations will be asked to approve the merger at special meet-

> Material Service, one of the nation's largest producers of building materials, concrete products

vision of General Dynamics. Henry Crown, present chairman of the board of Material Service, will continue as chairman of the new division.

According to Frank Pace Jr. board chairman of Dynamics, the merger of these two organizations, one primarily in defense, the other entirely in commercial business, offers vital advantages of long-term growth and development for both. Pace also said 'the interest and activities of the Crown family in Material Service Corporation will be maintained. The policies and program relating to personnel and the conduct of the business which have contributed so much to its success and growth will be con-

is engaged in a long-term program to supplement its defense business with expanding com-mercial businesses. The corporation's ultimate objective is to American remained apathetic toachieve an approximate balance of defense and commercial earnings. The merger with Material Service represents a long step in that direction, he said.

Material Service was started in 1919 by Henry Crown, Irving Crown and the late S. R. Crown. For 1958 net sales were \$114 mil-





FOR RESEARCH—In top photo are some of key persons at dedication of \$10 million John Jay Hopkins Laboratory for Pure and Applied Physics in San Diego. From left, Dr. Frederic de Hoffmann, head of General Atomic Division; Frank Pace Jr., chairman of General Dynamics board: Mrs. John Jay Hopkins, for whose late husband laboratory is named; and Prof. Niels Bohr of Denmark, Nobel Prize winning nuclear physicist, who was chief speaker. Below, at far left, subs. is Earl D. Johnson, General Dynamics president.

Reactor's Power Tapped For Dedication of Lab

ic's TRIGA research reactor was "flashed" to a peak power level of 1,500,000 kilowatts—a new record for atomic reactors-in the climax to the dedication of the John Jay Hopkins Laboratory for Pure and Applied Science last month.

Dr. Frederic de Hoffmann, president of General Atomic Division, described the "flashing" to the audience as an impulse received from the TRIGA reactor serving to unveil the laboratory's dedication plaque.

The TRIGA prototype reactor, located at the north end of the laboratory, increased its power output from one watt to 1,500,-000 kilowatts (thermal) in less than one-tenth of a second. The

SAN DIEGO — General Atom- entific personnel could safely stay within a few feet of the top of the tank during the flash. The self-regulating feature of the TRIGA reactor's unique fuelmoderator elements of uraniumzirconium hydride immediately reduced the power to normal operating levels.

This peak flash of a millionand-a-half kilowatts is a new record for the energy level attained by any nuclear reactor in controlled operation, exceeding a previous recorded high of 530,000 kilowatts achieved by the Atomic Energy Commission's kinetic experiment on water boilers (KEWB) in a test conducted man airplane type control. The April, 1958. To have produced single-stick submarine system a similar burst of instantaneous was recently tested in the highenergy by electrical means would speed A-sub Skipjack which Gen-

Electronic Aids Will Cut Size Of Subs' Crews

GROTON — General Dynamics Corporation's Electric Boat Division has been selected by the Office of Naval Research to serve as manager of an industry-Navy team working on a submarine integrated control system (SUBIC) that may permit manpower reduction on atomic powered submarines from the present average 100-man crew to 12 men.

Target date for placing the integrated control system in a nuclear submarine is 1964 and the project promises to be of importance in both small "killer" (anti-submarine) submarines and the larger ballistic missile-firing

Primary purpose of the program is to increase the operational and combat effectiveness of submarines. The SUBIC scientists are attempting to create a balanced man-machine partnership that will utilize electronic sensing and data-processing equipment to permit up-to-theminute tracking of contacts and provide information necessary for precise navigation and weapons firing. A television-type visual display of information will enable the submarine commander to make prompt decisions. In effect the skipper will have an "electronic porthole" to "see" his subsurface environment, similar to a pilot looking through an aircraft windshield. These features, originally developed for the aircraft instrumentation program, are logically adaptable to the latest atomic subs which feature oneactual flash lasted approximately have taken the entire generating level Dynamics delivered to the 15-thousandths of a second. Scicapacity serving San Diego.



AN ALSO RAN-This was Consolidated Sikorsky Guardian, built for Army bomber design contest in 1927 but withdrawn at last minute as not coming up to specifications. Consolidated collaborated with Sikorsky Manufacturing Co. on this project with latter building the plane at Long Island plant.

Army Engineer Laddon Joins Consolidated Air

(This is 12th installment of a continuing history of Consolidated Aircraft Company, which ultimately grew into Convair Division of General Dynamics Corporation.)

and sustained public interest, American aviation enjoyed its Pace pointed out that Dynamics golden age in the closing years of the 20s. A flourishing air traffic developed in Europe after the war, but at home the average ward flying in all its aspects. This changed swiftly when a young air mail pilot, Charles A. Lindbergh, fired the nation's imagination with a solo flight from New York to Paris on May 21, 1927. From about that time the great aviation boom was on.

This climate was made to order for the prospering Consolidated Aircraft Co. which had determined to expand into the commercial market as well as heavier military aircraft. Attention centered at first on the fruitless design of a bomber. However, the end result was a new family of flying boats that were to dominate U.S. naval aviation for a decade, and incidentally spur creation of the country's first international seaplane line.

President Reuben Fleet's opening move was to employ one of the Army's foremost civilian engineers. This was I. M. Laddon, who joined the Engineering Division of the Air Service in 1917 and was made chief of Design Branch 2 (heavy aircraft) at Mc-Cook Field in 1919. Among his accomplishments were the GAX attack plane of 1919, and the allmetal CO-1 of 1921. When the Army stopped building prototypes he turned to designing details and was awarded patents in 1923-27 on aerodynamic, structural and equipment developments. The Bendix-Laddon disc B-2 Condor.

From the standpoint of avid | wheel and integral brake became standard aircraft equipment of the late 20s.

> Laddon joined Consolidated in March, 1927. He remained at Dayton with a field staff. (Among them was C. B. Carroll, who retired from Convair in 1956 after a long career in aviation. His last post was as project engineer on the Navy-Convair experiments with the first vertical takeoff plane, the XFY-1.)

What the Army Air Forces wanted most in 1927 was a modern, heavy (twin-engine) bomber. Consolidated was one of five companies that entered a design competition, and the Dayton staff worked for some months on Model 11. This was dropped when Fleet and another competitor, the Sikorsky Manufacturing Co., reached an agreement to collaborate on a Sikorsky design.

The bomber was completed in Sikorsky's Long Island plant late in 1927. Its wing span was 100 feet and power plants were 525 hp. Pratt & Whitney Hornets. When wheeled out for its maiden flight the plane bore the legend 'Consolidated Sikorsky Guardian" on its red and white tail surfaces. Consolidated pilot Leigh Wade, a veteran Army flyer and later (1928-1933) a vice president of Consolidated, was at the controls.

After a series of tests, however, Consolidated decided the plane fell short of specifications and withdrew from the design contest. It was too late to cancel press releases and advertisements that described the Guardian as a joint product of the two companies. The Army bomber contract eventually went to the Curtiss



30 YEARS AFTER-I. M. Laddon, Army's foremost aviation designer when he joined Consolidated in 1927, is shown here (right) receiving his 30-year pin from Frank Pace Jr., chairman of General Dynamics Corporation board.







manager, is fitted by Finn Wahl, new CRA president, with Texas-style hat; center, Davis presents Stewart with easy chair with built-in electric vibrator.

AWARDS—Presented tokens of appreciation at Convair dinner honoring CRA Milton Stewart, CRA immediate past president, presents trophy to B. T. Frost, Employee Council were these (left to right): Frank W. Davis, host and Convair FW whose boating activity was named outstanding of the year by CRA; and far right,



Convair hosted council members and wives at annual dinner June 24 in CRA build- dent; host Division Manager Frank W. Davis; and master of ceremonies Fred E. Council members stand at sides and in back of ballroom. Standing center Chambers, manager of industrial relations and security.

RECOGNITION — To recognize volunteer efforts of CRA employee council, at back of room (left to right) are Milton W. Stewart, CRA immediate past presi-



FORT WORTH

Promotions to and within supervision, professional and administrative effective June 22.

professional and administrative effective June 22.

Dept. 3: to health physicist, D. J. White; Dept. 4: to buyer-sr., O. B. Davis; to cost analyst, C. M. Willingham.

Dept. 6: to aerophysics engineer sr., R. O. Cox, M. D. Sanner; to associate engineer, H. J. Allison, J. R. Cooper, F. E. Denke, J. E. Evans, L. J. Freeman, G. M. Summerville; to design engineer, R. G. Alexander, P. J. Baggett, T. D. Clark, A. N. Ellis, W. S. Moore; to flight test engineer, D. F. Grimm; to flight test engineer, R. J. Kajs, R. A. Pople.

Dept. 8: to supervisor, L. R. Fiock Jr.; Dept. 9: to manager of general accounting, R. W. Harwell; Dept. 19: to cost analyst, P. C. Crysel.

Dept. 21: to material liaison man, J. C. Rice; to project coordinator, E. E. Churchill Jr.; Dept. 22: to master scheduler, J. B. Braziel.

Dept. 27: to liaison man, A. G. Bender, Jr. L. D. Dove, R. C. Jonlin, J. B.

uler, J. B. Braziel.

Dept. 27: to liaison man, A. G. Bender Jr., J. D. Dove, R. C. Joplin, J. B. McGilvray, L. G. Perkins.

Dept. 54: to foreman, W. B. McQuien; Dept. 58: to foreman, O. E. Gryder; Dept. 85: to customer service engineer sr., S. LePoris.

Dept. 89: to material liaison man, J. G. Sharp Jr.; Dept. 95: to assistant foreman, G. L. Mason.

Awards

The following received Employee Suggestion awards totaling \$5,994.85 for the period ending 18 June:

Dept. 3, S. Haratsis; Dept. 4, B. J. Bain, L. F. Perkins; Dept. 6, P. J. Bushong, C. E. Cannon, J. H. Langston, T. R. McAlindon, T. J. Vastine.

Dept. 14, J. L. Alford, H. B. Weddell, B. G. Workman; Dept. 21, J. D. Keel; Dept. 22, G. R. Booth, L. B. Johnson, B. R. Rogers, V. L. Wilson.

Dept. 24, R. A. Buck, J. W. Childress, E. L. Cobb, E. H. Crubaugh, R. L. Medley, C. H. Musick, C. R. Nelson.

Dept. 25, L. O. Gabbert, F. V. Lormis, L. M. Mitchell, C. Shippey, C. D. Sipes.

Dept. 27, C. L. Armstrong, B. R. Fish-

Dept. 27, C. L. Armstrong, B. R. Fisher, R. A. Jackson, W. M. Lester, C. L. ters.

*

McCauley, K. Pecor; Dept. 28, J. C.

McCauley, K. Pecor; Dept. 28, J. C. Sanders.

Dept. 30, J. N. Abernathy, J. L. Brown, C. W. East Jr., J. C. Hutchins, J. R. McCaskey, H. McMurtre, C. D. Meuir, R. H. Wakefield, H. M. Watson. Dept. 31, B. E. Laurent, A. H. Phagan, J. H. Ross; Dept. 33, J. V. Curry, J. G. Estes, L. C. Stout, B. A. Yandow. Dept. 35, E. M. Bailey, J. M. Cudd, Jr., G. C. Spears; Dept. 36, A. W. Hall; Dept. 41, J. W. Gibhart, H. H. Langham Jr.

Dept. 46, E. Dunn, O. R. Campbell, J. A. Griffin Jr., J. F. Reese, W. W. Scoggins, M. H. Smith, P. J. Urevic, H. D. Witt.

Dept. 48, J. O. Taylor; Dept. 53, Z. Stinson.

D. Witt.

Dept. 48, J. O. Taylor; Dept. 53, Z. Branch, H. A. Runge, C. L. Stinson; Dept. 54, R. L. Chadwick, M. W. Matthews Jr.

Dept. 55, R. L. Crooks, M. L. Lowry; Dept. 65, C. E. Helton, D. L. King; Dept. 63, W. P. Harrell.

Dept. 64, C. R. Briesenick, J. D. Cusack; Dept. 65, J. W. Hooper; Dept. 74, J. D. Foster.

Dept. 75, W. E. Allen, R. L. Borel, W. K. Brenner, M. L. Goss, M. R. Hoefer, G. B. Mills, W. J. Morrison.

Dept. 81, F. E. Cole, D. J. Dominey, J. A. Echols, J. D. Landers, R. H. Savage, G. C. Williams.

Dept. 82, G. Bassham, H. E. Gahagan,

Dept. 82, G. Bassham, H. E. Gahagan, L. K. Lankford Jr., W. B. Pipes Jr.

Births

Fort Worth

PULLIAM—Jill Idalyn, girl, 7 lbs. 8 ozs. born June 14 to Mr. and Mrs. J. T. Pulliam Jr., Dept. 36.

KOENNING—Alan Verne, boy, 6 lbs. 9 ozs. born June 20 to Mr. and Mrs. A. L. Koenning, Dept. 75.

Deaths

WOODLEY—N. V., Dept. 4, died June 25. Survivors include his wife and a daughter.

HARDIN—J. W., Dept. 89, died June 30. Survivors include his wife, one son and two daughters.

INCE—S., Dept. 20, died June 26. Survivors include his wife and 2 daugh-

Convairiety

International Council of Industrial Editors

International Council of Industrial Editors

Founded Sept. 1, 1948. Published in six editions (Fort Worth-Daingerfield, San Diego, Pomona, Astronautics, Mail Edition and Antelope Valley-Holloman) by Convair Industrial Relations, General Offices, San Diego, Calif., Logan Jenkins, editor.

Approximate current total circulation, over 65,000. News items and letters to the editor are solicited, but no advertising can be accepted.

SD Editorial Offices, Building 32, Plant 1, ext. 1071. Staff: Grayce Fath, Helen Pemberton, Fred Bettinger.

FW Editorial Offices, Col. 73-C, Ext. 2961. Mailing Address: Convairity, Convair, Fort Worth, Texas. Telephone PE 8-7311. Staff: Bob Vollmer, Fort Worth editor; Pat Baker, Mary Beck.

Astronautics Editorial Offices, Bldg. 2, new plant, ext. 1154. Staff: Bryan Weickersheimmer, Astronautics editor.

Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8, Staff: James Combs Jr., Pomona editor; Dorothy Keller.

Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.

WILLIAMS, Dept. 75, died May 16. Survivors include his wife, one son and one daughter.

Personals

We wish to express our sincere thanks to our many Convair friends for their floral offerings and other kindnesses shown upon the recent death of our loved one John E. Lackey.

Mrs. John E. Lackey and family

I would like to express my sincere appreciation to all the Convair employees who have been so thoughtful during my D. L. Keller, Dept. 22-3

We wish to express our sincere thanks to our many Convair friends for their floral offerings and other kindnesses shown before and upon the recent death of our loved one, Harold E. Hearne. Mrs. Harold E. Hearne and children

Hitchhikers

Riders Wanted From

Vicinity Berry and N. S. Expressway, a.m. shift, call Billie Pearce, WA 4-8180. Browning Heights and Haltom City areas, 7 a.m. shift, call TE 8-6514 or TE 1-1902.

Vicinity Berry and N. S. Expressway, 3:45 shift, call Shirlene Huffman, WA 3-9509.

5300 Odell Dr. (Southside), 7 a.m. shift, call L. A. Ayers Jr., WA 6-3912.

1407 Celeste, Dallas, Texas, 7 a.m. shift, call J. J. Wallace, EX 1-4266. Morningside Park, 7 a.m. shift, call J. T. Strange, WA 3-9471. 3216 Cockrell, 7 a.m. shift, call W. L. Palmer, WA 3-4077.

Texas Tech Hosts **New Air Workshop**

Convair Fort Worth and Air Force Academy representatives explained development and testing of the first supersonic bomber at the recent Air Education Workshop at Texas Tech College in Lubbock.

Malcolm Holloway, administrative assistant in the office of the special assistant to the division manager, represented Convair Fort Worth at this first annual discussion-type seminar.

Is It News?

Is it news? Then grab a telephone and call Convairiety



CASA STARS—Stars of Casa Manana musical entertained at CRA. This is Sylvia Miles, who played Ninotchka.



SINGER MACE BARRETT



ACTRESS VIRGINIA MARTIN Buckley.

The Passing Years

The following emblems were due during the period July 16 through July 31: ing the period July 16 through July 31:
Fifteen-year: Dept. 6, L. N. Gill; Dept. 7, O. Cross, B. S. Young; Dept. 17, W.
R. Taylor; Dept. 21, L. N. Crittenden.
Dept. 22, G. W. Hendrix; Dept. 24,
V. K. Halbrook, A. L. Lewis; Dept. 27,
F. D. Read; Dept. 29, S. L. Canup.
Dept. 31, A. F. Erwin; Dept. 36, W.
A. Wagner; Dept. 46, R. G. Cranfill;
Dept. 54, L. H. Speer.
Dept. 56, L. Futrell, E. R. Osborne,
W. B. Prater; Dept. 59, E. E. Dean, R.
C. Hobbs; Dept. 74, M. J. Faries, I. L.
Gumm.

Ten-year: Dept. 4, C. B. Anderson, R. Christensen, R. W. Porter, J. E.

Trout.

Dept. 6, J. L. Boteler, G. P. Breaux, J. M. Coker, F. A. Curtis Jr., J. C. Elrod, P. G. Gillespie, R. B. Gillmann, Z. P. Heath, C. C. Jones Jr., W. H. Killough, J. F. Kuban, R. T. Richtman, C. E. Rucker, G. Spears, F. A. Withers. Dept. 11, N. K. Sorenson; Dept. 14, R. L. Collins; Dept. 17, G. G. Gilder, A. Murray.

Dept. 11, N. K. Sorenson; Dept. 14, R. L. Collins; Dept. 17, G. G. Gilder, A. Murray.
Dept. 20, W. C. Flowers, W. M. Loflin, R. G. Morgan, W. H. Pedigo; Dept. 21, M. L. Newsom.
Dept. 22, J. R. Arrington, D. Green, R. C. Murphy, J. H. Person, C. Stokes.
Dept. 24, G. W. Bernard III, C. L. Dixon, F. L. Edmondson, T. H. Halsey, N. J. Hutton, N. E. Kingsley, T. H. Wilson Jr., B. E. Wren Jr.
Dept. 25, C. D. Cole, R. M. Kuhn; Dept. 27, R. L. Evans, D. D. Fish, L. P. Francis, J. O. Gordon, R. L. Kendrick, F. G. Porter.
Dept. 28, G. F. Ferguson, P. H. King; Dept. 31, E. D. Moore; Dept. 32, A. B. Coulson.

Dept. 33, J. D. Cox, J. C. Smith;
Dept. 41, W. C. Thetford; Dept. 56, E.
G. McDowell; Dept. 65, H. G. Alexandra

ander.
Dept. 74, C. R. Fowler, J. M. Mc-Afee; Dept. 75, J. R. Andrews, C. O. Witherspoon; Dept. 81, E. W. Favor, R. L. Stokes, H. N. Wilcox; Dept. 85, B. E. Arnett; Dept. 89, B. L. Woolfolk.

Horse Show Winners Named by Juniors

Caroline Davis, daughter of Division Manager Frank W. Davis, and Jerrel Coburn, son of Otha Coburn, won high point trophies at the recent ranch activity junior horse show at CRA.

Other winners were Jeane Crotty, Rob Montgomery, Ronnie Bankhead, Buster Cockerall, Betty Williams, Mike Stouffer, Don Dykes, Jimmy Griffen, Jamie Crump, David Dykes, Helen Hendrickson and Bettye Lynn

Ham Network to Highlight New **Civil Defense Program Saturday**

First programs on the Convair who are going to help in this Radio Amateur Club network to civil defense program," Schelper start operations Saturday will commented. "A bunch of them highlight "Civil Defense as It Applies to Fort Worth," Com- of the new offices." missioner Max Schelper announced this week.

Stress has been placed on civil defense broadcast in conjunction with opening of the new Office of Civilian Defense Management in Denton on July 19. "We've got lots of CRA hams

Chess Champion Will Play All

Kell Terry, United States Chess Federation expert, will challenge all CRA chess players to a simultaneous match next Wednesday at 7 p.m. at CRA.

Commissioner R. W. Wooten said Terry will play against all players who want to play.

"There will be a charge of 50 cents per board," he added, "but this will include a ticket to the USCF Open Tournament and will also give the ticket holder a chance to win a TV set."

In addition to Terry's USCF rating, he is a member of the Board of Directors of the Texas Chess Association.

Wooten said first installment of books for the new CRA chess library has arrived. They are available at the CRA office.

Cameramen Capture Red Snapper Galore

Fish galore were pulled in by to lab people who celebrated the Fourth of July hauling in red snapper off the coast of Port

Two Convair Fort Worth photostate the Fourth of July hauling in red snapper off the coast of Port

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Two Convair Fort Worth of Two Convair Fort Worth eight Convair Fort Worth pho-Isabell near Brownsville.

Those making the trip were Jim Covington, R. A. Vick, Bill Rich, J. W. Calloway, Ernie Lain, Don Phillips, Jack Frisbey and Aaron Murray.

In addition to spending all day Saturday 50 miles out in the Gulf on a fishing bank, the group also worked in a trip to Matamoros, Mexico, before returning to Fort Worth Sunday.

"You can rest assured we had plenty of cameras on hand to bring back proof of our catch," Lain commented.

Other programs to be handled over the new ham net will include "Antenna Theory" and 'Feasibility of Radio Telescopes."

Net control station call letters are W5SJZ. Transmitting will be on 3945 kc, and receiving will be on 3945 kc, 3970 kc, 7205 kc and 7195 kc plus or minus one kc. It can also be picked up on 29.640 mc and 50.7 mc.

Entry Deadline Set For Bowling League

Deadline for entering the Convair Fort Worth Management Club bowling league for the 1959 and 1960 season is July 17.

Twenty alleys are reserved next fall at Park Lanes for Tuesday nights at 6 p.m., and 16 alleys are reserved at Tavener's Playdium for Thursday nights at 8:30 p.m.

Players are asked to form teams, fill out entry blanks and indicate which night they prefer

Entry blanks are available from C. F. Wilkerson, president, at ext. 3901 or from R. O. Beil, vice president, at ext. 2937. Blanks were mailed out to all management club members.

Two Convair Sons

Two Convair Fort Worth sons were to leave this month for the United States Military and Naval Academies, Congressman Jim Wright's office announced this

They are Clyde W. Hotman Jr., 18, son of C. W. Hotman of Dept. 7-9, and Donald W. Mathis, 18, son of W. F. Mathis of

Hotman, math major at Rice last year, will attend West Point, and Mathis, a 1959 honor grad from Arlington Heights, will attend Annapolis.



PICNIC UNDER STARS—Taking advantage of CRA's recent picnic under the stars for astronomy club members are, left to right, Erin Gilligan, Florence Hopkins, Johnny Hopkins, Ralph Hopkins, Norman Cole and Nell Johnson. Johnny is looking through 41/4 inch reflector scope his father built. Cole is director of the Fort Worth Children's Museum Planetarium.

Two Junior Astronomers to Lecture Before CRA Activity Members at Clubhouse Wednesday Night

Two of Fort Worth's most | Dept. 17-3, will preside at Den-|student, will share the lecture omy club meeting at 7:30 p.m. America. in the CRA clubhouse.

They are Kay Gross and Tomtronomical League of America. N.Y.

outstanding junior astronomers will be guest lecturers at next Wednesday night's CRA astronthe Astronomical League of Observatory" and tell of his re-

Having been an active astron-omer since an early age, the 19-Both Kay and Tommy are proomer since an early age, the 19a junior organization of the As- Miami, Kansas City and Utica,

cently completed six inch re-

my May, former members of the year-old astronomist has given teges of Miss Charlie Noble, in-Junior Astronomy Club of the papers at national astronomy structor of astronomy at the Fort Worth Children's Museum, a junior organization of the As-Miami, Kansas City and Utica, Commissioner Art Gilligan ronomical League of America.
Kay, daughter of Mel Gross of Tommy, a 17-year-old TCU says next Wednesday's lecture is open to all Convair Fort Worth people as well as to reg-

ular club members and that tel-

escopes will be on hand for observing after the session.

I. J. Theriot of Dept. 6-7, active in radio astronomy, said feasibility tests will begin Saturday, July 11, at the CRA area. He has constructed a test antenna and says anyone interested should contact him at ext.

Gilligan said activity members were pleased with the recent 'Picnic Under the Stars" turnout. He said approximately 47 people showed up despite heavy overcast. Another such picnic has been planned near end of summer after the club's 19 inch telescope becomes operative.

Loock Dives into New Record At Citywide Swimming Meet

made a good showing. Vicki, 11, took second place in three meter and only last year came in diving in the girl's division. Cal, 9, made a creditable showing in the boy's division, though not Worth diving since arriving here

Loock, entered as an unattached diver, chalked up 428.80 points for this year in comparison to last year's 288.45 record.

student at Wesleyan University in South Dakota.

Loock has taken top honors in Texas diving in seasons past Bag Mountain Lion second.

He's been competing in Fort in 1944 and won the city men's three meter diving 11 times.

Several Fort Worth people credit Loock for their being able to swim, as he's been a swimming instructor for the Red Cross program several years.

Albuquerque Hunters

Lion hunting has become quite popular around Kirtland Air Force Base in New Mexico since Convair Fort Worth's W. T. Tallev Jr. of Dept. 21-2 brought in his first recently.

Talley, a materials representative, and O. J. Fletcher, General Electric representative assigned to the B-58 project at Kirtland, were hunting about 150 miles southwest of Albuquerque when they came upon the mountain lion.

Fletcher, who has a reputation as a big game hunter, has taken several other Convair people at Kirtland on hunting trips, according to J. L. Freeman of Convair Fort Worth's personnel de-

Rockhound Class To Start July 15

CRA Rockhounds will start a new class July 15, Commissioner will vie in a free flight category R. L. Norment announced this week.

Prospective participants have Entry blanks are not required. been asked to make application Price said all contestants need at the CRA office or to contact Norment at ext. 2042.

p.m., CRA. BRIDGE: duplicate session, 9:30 a.m., RA. RANCH ACTIVITY: calf roping, 6-8

p.m., ranch area, CRA.
SOFTBALL: engineering league play,
7 and 9 p.m., CRA. Thursday, July 16 ARCHERY: shoot, 7-10 p.m., archery

range, CRA.
ART: class, 7-10 p.m., CRA.
RADIO: operating night, 7

CRA.
RANCH ACTIVIITY: riding class, 4:30-5:30 p.m., ranch area, CRA.
SOFTBALL: second shift league play, 10:30 a.m.; engineering league play, 7 and 9 p.m. CRA 10:30 a.m.; engineering league play, 7 and 9 p.m. CRA.

SQUARE DANCING: classses: beginners, 7 p.m.; advanced 8:15 p.m., CRA.

Friday, July 17 BRIDGE: class, 10 a.m.; duplicate session 7:45 p.m., CRA.
RANCH ACTIVITY: cutting, 6-7 p.m.; roping, 7-9 p.m., ranch area, CRA.
SOFTBALL: Convair league play, 7 and 9 p.m., CRA.

ASTRONOMY: work parties, 9:30 a.m.-2:30 p.m., CRA. 30 p.m., CRA. RADIO: "CRAC" net meeting, 1:30

sunday, July 19 RANCH ACTIVITY: cutting, 4-6 p.m. roping 6-8 p.m., ranch area, CRA.

Monday, July 20

MOVIE: "Taza, Son of Cochise," (color) with Rock Hudson. Shown lunch period, 50-foot aisle. Tuesday, July 21

RANCH ACTIVITY: cutting, 6-8 p.m., ranch area, CRA.
SKIN DIVING: meeting, 7:30 p.m., CRA.

CRA.
SOFTBALL: Convair league play, 7
and 9 p.m., CRA.
STAMP CLUB: speaker, 8 p.m., CRA.
TABLE TENNIS: play, 7:30 p.m.,
CRA.

Wednesday, July 22 BRIDGE: duplicate session, 9:30 a.m., cern "CRA. States."

Carl J. Loock of Dept. 8 broke | in the North Central, Southwest his own record in men's three and Rocky Mountain areas, he meter diving in Fort Worth's started diving in 1931 while a recent 25th city swimming meet at Ridglea Pool. Loock's two children likewise

among ribbon winners.

Holder of AAU diving titles

Coin Club Sponsors **Auction on July 14**

A special coin club auction will start at 8 p.m. July 14 at the CRA clubhouse, Commissioner L. R. Wilson announced this week.

Wilson said a Fort Worth coin dealer will be on hand with several lots of coins for auction but added that club members with lots to auction will be taken care of first. He said the club will auction some 50 lots.

Mrs. Rebecca Miles, representative of the Arlington Stamp Club, will be guest speaker at the next CRA stamp club meeting at 8 p.m. July 21 at CRA. Mrs. Miles' discussion will concern "Flags of the United

Model Airplane Club To Sponsor Contests

Two CRA model airplane contests will go on at the same time Sunday at 1 p.m. at Forest Park partment, and at North Western Hills addition.

Commissioner C. L. Price said model airplane people at Forest Park will compete in combat and rat racing events. Those at North Western Hills addition designed for Class 1/2 A and Class A combined.

do is show up.

Activities Calendar... Convair Recreation Association events in the next two weeks are listed below. Readers interested may clip this column and save it for reference until next issue of Convairiety. For more information, phone CRA office, ext. 2771 at Fort Worth, ext. 424 at Daingerfield. SOFTBALL: Convair league play, and 9 p.m., CRA. TABLE TENNIS: play, 7:30 p.m. CRA. Wednesday, July 15 ASTRONOMY: lecture meeting, 7-10

Fort Worth

Tonight, July 8 ASTRONOMY: work parties, 7-10 p.m., ASTRONOMY: WORK parties, ASTRONOMY: WORK parties, ASTRONOMY: WORK parties, ASTRONOMY: CRA.

CAMERA: "Press Photography" by Gene Gordon, 7:30 p.m., CRA.
RANCH ACTIVITY: calf roping, 6-8 p.m., ranch area, CRA.
SOFTBALL: engineering league play, 7 and 9 p.m., CRA.

Thursday, July 9 ARCHERY: shoot, 7-10 p.m., archery

ARCHERA: Shock, range, CRA.
ART: class, 7-10 p.m., CRA.
RADIO: operating night, 7:30 p.m. RADIO: operating night, 7:30 p.m., CRA.
RANCH ACTIVITY: riding class, 4:30-5:30 p.m., ranch area, CRA.
SOFTBALL: second shift league play, 10:30 a.m.; engineering league play, 7 and 9 p.m., CRA.
SQUARE DANCING: classes: beginners 7 p.m.; advanced 8:15 p.m., CRA.

Friday, July 10 BRIDGE: class 10 a.m.; master point session, 7:45 p.m., CRA.
RANCH ACTIVITY: cutting, 6-8 p.m.; roping 7-9 p.m.; ranch area, CRA.
SOFTBALL: Convair league play, 7 and 9 p.m., CRA.

Saturday, July 11 ASTRONOMY: work parties, 9:30 a.m.-30 p.m., CRA.
RADIO: "CRAC" net meeting, 1:30

Sunday, July 12 MODEL AIRPLANE: control line contest, Forest Park, 1 p.m.; free flight contest, Western Hills, 1 p.m. RANCH ACTIVITY: cutting 4-6 p.m.; roping 6-8 p.m., ranch area, CRA.

Monday, July 13 MOVIE: "The Midnight Story" with Tony Curtis. Shown lunch period, 50-foot aisle.

Tuesday, July 14 COIN CLUB: auction, 8 p.m., CRA. RANCH ACTIVITY: cutting, 6-8 p.m., ranch area, CRA.



LUCKY 13-First to earn "quality crew" designations at FW were those that serviced this airplane, which made "clean sweep" of four successful pod drops at Holloman AFB. In top and center photos Division Manager Frank W. Davis congratulates first and second shift crews, while at bottom B. G. Reed, assistant division manager, presents awards to third shift crew.

Scrap Reduction of 26 Per Cent **Wins May Improvement Award**

reduction in scrap and rework—latched onto the Convair Fort Worth May quality improvement award.

June winner was not available at press time.

According to Ray Kendall, in the aircraft business today." general foreman of the department producing F-106 nose sections, the improvement was no accident. It was planned.

He contributes the continued improvement to seven basic factors. These include discrepant condition corrective action, work area placards pertaining to cost, and adoption of Employee Suggestions for better production methods.

Others are use of photos of dense or critical areas of the aircraft, instruction of employees by supervision, meetings to point out discrepant conditions and losses, and area quality control charts showing quality and dollar losses.

E. H. Starns, quality control representative, says the secret of quality improvement is summed have a chance to become ac- separate sections.

Dept. 46—with a 26 per cent up in a recent statement by August C. Esenwein, Convair executive vice president.

He said: "Cost reduction and

efficient operations must become a routine part of our work. It's

Confidence Key, Club Informed

Confidence is the key to leadership and success, Dr. Kenneth McFarland told Convair Fort Worth Management Club members at their June meeting at

Ridglea Country Club.
"If confidence is the key ingredient of leadership and success," he said, "perhaps it is just as well to consider it in three dimensions."

Then he advised members to 'get with themselves"—use more

of what they have.
"Successful men have the same general equipment that other people possess, but they become successful by using more of what they have," he explained.

Secondly, he said one must "get with his job." He pointed out that people continually talk of getting ahead and going places but never do anything about it. The sure-fire way to be interested in a job is to know more about it, he added.

And lastly he recommended 'getting with' the wisdom of the

ages.
"Man should leave the trial and-error type of learning to the lower animals, because man alone is in position to profit from the successes and failures of his predecessors," said McFarland.

Turbo-Compressors Accepted, Installed

Three ship's sets of the final configuration of Convair 880 turbo-compressors have been accepted by Convair SD and are now installed in planes Nos. 1, 3, and 4.

The turbo - compressors, built by Hamilton Standard, division of United Aircraft Corp., Windsor Locks, Conn., pressurize the 880's cabin and flight deck for passenger comfort regardless of

At altitudes up to 21,000 feet, the units maintain sea level pressures inside the plane. At higher altitudes, cabin pressure gradually increases to the equivalent of 8,000 feet when the transport is flying at 35,000 feet.

Besides acting as a pressurization unit, the turbo-compressor provides fresh air for the air conditioning system which maintains a 75-degree temperature and 40 part of the price of existence per cent humidity level in the

Two Million Expected to View Exhibit This Year Featuring Convair Products

to exhibit models of all of Convair's products to the general public will make its debut at the Iowa State Fair in Des Moines the last of August.

An estimated 500,000 people will view Convair's planes and ed and packed in cartons for missiles in a week's time at the shipment. Models of Convair Des Moines fair before the display is moved on, probably to the Oakland Air Show the first part 58 supersonic bomber—and misof September.

thoughout the United States Will

A traveling display designed quainted with Convair's products before the end of the year," said L. W. Fitzgerald, Convair manager of special activities.

The 15x15-ft. display will be made of masonite for lightness in weight and for a smooth surface for painting. It can be foldshipment. Models of Convair planes—880, 600 jet transports, F-102 and F-106 interceptors, Bsiles-Atlas ICBM; the Terrier "At least two million people and Tartar, shipboard-launched guided missiles-



LOADING UP—W. A. Bratton, Convair Fort Worth assistant project engineer, and John Jerotz, Hughes Aircraft, check out specifications as crews load special electronics pod on C-124.



CLEAN SWEEP-Guy Nesbitt, center, Convair Fort Worth sanitation foreman, and F. J. Alexander, industrial engineer, turn over keys to new vacuum sweeper to D. Lott of Dept. 25-4.

New \$20,000 Sweepers Tackle Task of Keeping Runway Clean

more than \$20,000 now help keep sweepers are driven simultaneover 177 acres of Convair Fort ously all day. In addition, more Worth ramps and runways spic than 100 manual brooms are used. and span—and damaging debris out of B-58 jet engines.

vacuum cleaners on wheels. They sweep a path more than seven Nesbitt concluded. feet wide.

"Since these new sweepers don't use water, we don't have to worry about them freezing in winter," said G. N. Nesbitt, foreman sani-

Nesbitt said the old sweepers used lots of water and had to be gassed about three times a day. He said the new sweepers are filled with gas about every three days and make no stops except

for dumping.

The new 64 hp cleaners with their hydromatic vacuum control transmission travel up to 15 mph and sweep up to 12 mph. They weigh 7,600 pounds and can cover all ramps and runways in two days.

Other outside sweepers in addition to the two new ones include two water sweepers. These are used more to sprinkle or wet down Convair's concrete acres.

To clean the inside of the plant

Two new sweepers valued at each day, four 36-inch 7½-hp

"The housewife thinks she's got her cleaning headaches, but I'd The new sweepers are gigantic be happy to swap her housekeep-acuum cleaners on wheels. They ing with ours for a day or so,"

Convair SD's Honer On IRE Committee

R. E. Honer, assistant chief engineer - electronics at Convair San Diego, has been elected to the administrative committee of the Institute of Radio Engineers, national professional group on engineering management.

Honer's three-year term began July 1.

The organization is concerned with the technical, industrial, and educational activities and problems related to engineering management administration.

Is It News? Call Convairiety



WELCOME, AMERICAN!—Convair Fort Worth's Glenn Grimes, right, pins badges on American Airline Management Club members for tour of plant recently.

Three Management Clubs Send **Members on Convair FW Visit**

American Airlines, Braniff Airlines and Sherman Management recently as special guests of Convair Fort Worth Management Club.

They were met at the Convair employment reception room by a committee headed by Ken Hargrove, material superintendent.

Here they received name tags, were divided into separate tour groups and were taken to the assembly line to get a glimpse of B-58 Hustlers being put together.

Others on the committee included E. C. Cauthen, J. E. Topliff, G. P. Nelson, H. W. Jenkins, S. J. Middleton, E. V. Gish and J. P. House.

Also, R. A. Wagner, T. G. Croft, M. J. Scott, A. O. Watson, L. L. Jarl, Bob Vollmer and H. R.

Members of all three groups are from NMA-associated clubs. Club members toured the plant The Sherman delegation is now in the process of forming a management club.

Employment Climbs To 15,000 at Astro

Employment at Convair Astronautics early this month passed the 15,000 mark.

Through June 14 the total was 15,176. Of these, 12,561 were assigned to the San Diego area; 1,101 at the Air Force Missile Test Center, Fla.; 914 at Vandenberg AFB; 390 at the Missile Static Test Site, Edwards AFB; 209 at Warren AFB. These figures apply to employees permanently as-

Con-Trib Funds Aid Flood Victims as Drive Goes Over Top

soaring past the target, Con-Trib was on the job providing financial assistance to families whose homes were flooded in the latest overflow of Fossil Creek.

A current report showed pledges totaling \$300,406, or 116.1

Participation was 92.2 per cent with present total contributions surpassing the target of \$258,000.

"My sincere thanks go to each Convair employee who participated," said Frank W. Davis, Convair Fort Worth manager and Con-Trib president.

"This is another heart-warm- | 6-7; Don Deborde, 6-1; and Glen pledges sent campaign funds ing demonstration of the hearts Hudson, 89. of Convair employees-and a demonstration of their faith and belief in the principles upon which Con-Trib is based."

> pledges, the good their dollars do was being demonstrated in the assistance available for flood victims if they needed it.

Employee families in the flood, among others, were these: J. T. Hilliard, Dept. 4-1; C. W. Phillips, 89-3; Floyd R. Honeycutt, 9, 10, 16, 18, and 51. Dozens 25-3; M. M. Cantrell, 6, and Mrs. scored in the 90 to 99 per cent Cantrell, 21; Frank E. Hancock, bracket.

Dollarwise, reliability depart-

ment (with only nine employees) made highest percentage in the plant: 187 per cent.

Another high record was set As employees were signing by Dept. 2 with its 152 per cent of dollar quota.

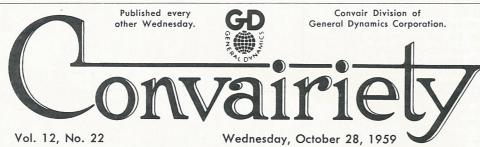
In all, 56 departments of the total 61 made 100 per cent or more. Only one department was less than 90 per cent.

In participation, these departments scored 100 per cent: 5, 8,



View from roof of J. T. Hilliard home.





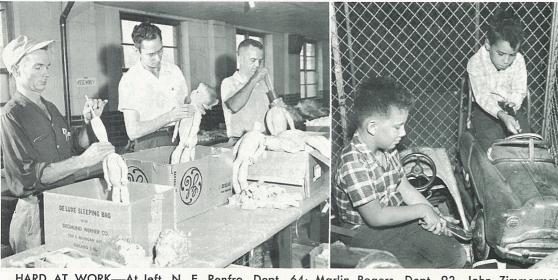
Fort Worth and **Daingerfield**

EDITION

Fort Worth news office: ext. 2961; Daingerfield news

SAN DIEGO, POMONA, ANTELOPE VALLEY, VANDENBERG AFB, CALIF.

AFMTC, CAPE CANAVERAL, FLA., FORT WORTH, TEX.



HARD AT WORK-At left, N. E. Renfro, Dept. 64; Marlin Rogers, Dept. 92; John Zimmerman, Dept. 82, take stations on doll assembly line of Fix-a-Toy operation. At right, Peter Coriddi, 10, and brother Kenneth, 7, help their daddy, Pete Coriddi of Dept. 64, in "auto shop."

Movie on Fix-a-Toy Ready to Circulate

"Spirit of Christmas," color motion picture history of Operation Fix-a-Toy, is ready for circulation.

Viewers will include church and civic organizations as well as plant groups.

Six copies of the movie, produced by engineering motion picture section, are available.

G. N. Nesbitt, Dept. 25-4 foreman, is originator of Fixa-Toy. The film follows his work on the project, which in a few years has grown to a citywide undertaking.

The Texas Boys' Choir provides background music.

Air Force Flight Tests Begin on Hustler No. 31

Air Force flight tests began 31, first production model of the sonic bomber.

Convair flight tests were already virtually complete.

These are next-to-last steps be-

fore delivery of the airplane. After Air Force acceptance Hustler." flights, minute quality inspections are made both by Convair

Then the climax — delivery to last week on B-58 Hustler No. the Air Force at Carswell AFB. "When we deliver the Hustler,

Convair Fort Worth-built double the Air Force will have a complete, acceptable and tactical supersonic bomber for the first time," said W. L. Daniel Jr., whose Dept. 63 has primary responsibility for "hustling the

Daniel is general foreman on first shift. M. W. Holley is secand the Air Force. Convair makes ond shift assistant general forea "Pre-262" inspection, followed by the Air Force's "262" inspecsibility and Glen Nelson is third shift foreman.

"This is the cleanest B-58 we've had so far," said Daniel, "but we nevertheless have our problems, as we expect in any new aircraft.

"But we're working them off as fast as three hard-working crews (three shifts) can get to

Maj. Joe B. Thomson Jr. is Air Force pilot for the acceptance flights. Navigator is Capt. Andrew Z. Doka. Capt. Robert S. Ballard is defense systems

More Texas Leaders Briefed on Booms By Convair and SAC

San Saba, Brownwood, Hamilton and Coleman were B-58 flight test corridor towns represented at the second briefing session on landing gear panel, accompanied sonic booms. The briefings are sponsored by Strategic Air Com-

> The visitors were taken to Omaha for a tour of Offutt Air Force Base and explanations of the sonic boom - caused by airplanes flying faster than the speed of sound.

The civic leaders representing these West Texas towns were then returned to Fort Worth Other units explain phases of where they were briefed, then

Hustler Vital To U.S. Defense, Pace Declares

"America can't afford to do cause what we have promised, without the B-58.

"It is our responsibility—not as General Dynamics or Convair people, but as American cit- proach. izens—to provide the nation with this most potent weapon of defense.'

That definitive spelling out of the duty of Convair people—for their own good and that of the nation—came from Frank Pace Jr. at the annual "Top Brass Night" meeting of Convair Fort Worth Management Club.

of General Dynamics, was principal speaker. Special guests were General Dynamics board Run for Club members, members of the board of management, Convair President Jack Naish and Executive Vice President August C. Esenwein.

The dinner meeting, held at Ridglea Country Club, was attended by a record-breaking crowd of more than 1,600.

Pace told club members that he was particularly impressed with the B-58's various capabilities, especially after recent test missions in which the Hustler flew "on the deck" (that is, unapproximately two hours (Convairiety, Oct. 14).

"What we have accomplished in General Dynamics and Convair has been done with total integrity," said Pace. "I am proud didates for vice president. M. E. of what has been done at Fort

"We are in a good position to the same office on nights. continue the B-58 program be-

we have delivered or exceeded. We must continue to keep ourselves and our actions above re-

"We'll continue our efforts in the B-58 program not because it's ours-but because it's right."

Pace said that "when the cards are dealt at the international poker table, the winning cards are strength."

Pace added that we are in an (Continued on Page 8)

Pace, chairman of the board for General Dynamics, was prin **Presidency**

C. W. "Smokey" Doyle, Dept. 22-2, and C. C. Utley, Dept. 4-1, compete for president of the Convair Fort Worth Management Club as Nov. 2 elections approach.

Officers elected will take office in January and their terms will run until July, 1961, in accordance with a recent constitutional amendment which changed the club year from Jan. 1 to July der 500 feet) for 1,400 miles in 1. After that, new officers will serve from July of one year to July of the next.

The ballot next Monday will show J. O. Muncy, Dept. 53, and P. H. Billman, Dept. 6-6, as can-Miller, Dept. 27-1, and W. M. Berry, Dept. 7-4, are running for

(Continued on Page 8)

panel showing flow of fluids. mand and Convair Fort Worth.



TOP BRASS-Tom Paniszczyn of FW Dept. 6, who won President's Award, is shown with Frank Pace, General Dynamics board chairman, and Convair President Jack Naish.

Crew Members at Carswell 'Fly' Hustlers, Never Leave Ground

Air Force crew members at other group beginning after each Carswell AFB are now "flying" graduation.

B-58 Hustlers, ejecting and landing without ever leaving their for crew members in each of the classrooms in the base training three stations. The pilots' class-

They are using working models of B-58 equipment built by Convair Fort Worth development de-

Classes began this month and will run for several years, an-

FW Thrift Display Wins at St. Louis

A Convair Fort Worth "Miss Thrifty" display (Convairiety, Oct. 14, 1959) was judged one of four winners at the recent national annual conference in St. Louis of National Association of Suggestion Systems.

It was designed by Dept. 17's publications and graphic reproduction section artists and M. J. Scott of employee suggestion section and included Convairiety promotional material.

Scott gave conference members a report on Convair Fort Worth's "Ideas to Esenwein" campaign which resulted in cost savings of more than \$1 million.

es last about a month longer than instruction for navigators and defense systems operators.

Every day four hours of class are followed by four hours of actual flight line training. In classrooms the burden of the instruction is on the Convair mobile training units.

Air Force instructors, trained in Convair classes, begin instruction with the model panels, which are cut-away versions of the B-58. In one room is the hydraulic by an animated "Mickey Mouse" Colored lights, blinking one after another, give the appearance of liquid in motion.

An ejection seat and canopy system is in another room. The seat operates completely, with a slow trip up a short pair of rails taking the place of actual ejec-

the airplane's operations from toured Convair facilities and infuel system to air conditioning. spected the B-58.

'Silent Sam' Shannon Honored By Experimental Test Pilots

at Convair SD and the first man premier experimental pilot. to fly a delta wing ariplane, was



A FELLOW-E. D. Shannon, first to fly delta wing aircraft, is now fellow of Experimental Test Pilot Society.

made an honorary fellow of the Society of Experimental Test Pilots at an awards banquet Oct. 10 in Los Angeles.

The honor is reserved for pilots no longer active in test flying, "but whose accomplishments in the profession . . . in particular and in the advancement of the aviation endeavor in general have been unique and outstanding."

Now an engineering staff specialist for SD, Shannon was a test pilot for nearly 20 years, most of that time with Convair San Diego. And during the bulk

foreign matter down to minute

particles the eye can't even see.

separator put into operation re-

cently. The JP4 fuel goes from

a fuel tank truck through the

filter separator truck and into

The separator is capable of

filtering fuel at a rate of about

600 gallons a minute. At this rate, you could fill your auto

gas tank in two seconds or less!

moves foreign matter as tiny as

two microns in size. This is about

.000078, according to Marce Ste-

vens, process control engineer as-

signed to the project.

And even at this rate, it re-

the aircraft.

It's a job done by a new filter

Water, Foreign Matter Filtered

Jet fuel for B-58 Hustlers now | space manufacturers to use the

From Fuel Entering Hustlers

E. D. "Sam" Shannon, former | of his active test piloting for chief of engineering flight test Convair SD he was the division's

> Although he made a number of important "first flights" (among them the XB-46 jet bomber, from Lindbergh Field, April 2, 1947) 'Silent Sam" is remembered best as the first man to fly a delta wing. It was the airplane then called the 7002 which he flew successfully from the dry lake beds of Muroc (now Edwards AFB) Sept. 18, 1948. The airplane later was designated XF-92A and from its delta wing design came the F-102s and F-106s.

> Sam could handle the delta wing on water, too. It was he who first took the XF2Y-1 (Sea Dart) into the air, July 29, 1953, from the surface of San Diego

Two SD Men Travel 110 Miles, Horseback

Two Convair SD Riding Club members, Don Wescott (Dept. 216) and Luke Barbour (Dept. 280) this month relived four days of the "Old West," horsebacking from Tucson to Tombstone, Ariz. with the Tima County Sheriff's Posse.

The pair spent nine-hour days in the saddle as they traversed the rugged country. In all, 32 riders made the trek, including two cooks and two helpers. They left Tucson on the 110-mile jaunt the morning of Oct. 13, arrived in Tombstone at 3 p.m. Oct. 16.

Evenings, they stopped at ranches and camped out overnight. In Tombstone, they took part in the community's "Helldorado" celebration.

been used by Strategic Air Com-

The new filter, called Perma-

Adequate filtering of the jet

fuel is considerably more vital

than was filtering gasoline for

Some jet aircraft use about

five times as much fuel an hour

means the jets are subject to

about five times as much con-

tamination from foreign matter

Further, jet engines are built

In addition, jet fuel tends to

The new filter system even has

water is getting through or when

Process control department will

monitor the filters, testing each

to much closer tolerances than

in fuel. So it has to go.

piston engines for several rea-

Dry, is built by Permanent Filter

mand for some time.

Corp. of Los Angeles.



FULL LINE—For first time six Convair 880s fill final assembly building at SD Plant 1 in various stages of major mate and final assembly before ship No. 6 (in foreground) was rolled out of Bldg. 3 recently for completion before going to field operations.

Obscene Material Sent to Children

Obscene material will be sent through the mail to an estimated one out of every 35 school-age children during the next year.

The Post Office Department warns that racketeers obtain children's names and addresses from various sources, send pornographic material right to the family mail box. Parental cooperation is needed to trace the

If it happens at your home, save all the material (including envelope) and deliver it by mail or in person to the nearest postmaster who will take appropriate

So! We're Making Compact Cars, Yet

can be cleaned free of water and new type system, although it has Convair received some unexpected publicity recently through the Green Bay (Wis.) Press-

> A newspaper clipping received tist, Convair scientific research laboratories, San Diego, announc-ing Chevrolet's new "compact ing Chevrolet's new car," described it throughout as a "Convair."

Gazette.

by Mary F. Romig, staff scien-

Astronauts Flying as do prop-driven planes. This F-102s in Practice

Convair - built fighter - interceptors are being used by the country's first space men for

flying practice. Two F-102s based at Langley AFB, Va., are assigned to Project Mercury for exclusive use of the seven astronauts now in training as the first men to be sent into space by the United States.

The planes are painted gray ith white vertical stabilizer and speed brakes. rudder, Project Mercury insignia, when selected, will be carried on the stabilizer.

30-Inch 'Dish' Built in Pilot Shop **Used for Field Test of Sun Rays**

in the pilot shop at Convair FW is now at Salt Lake Flat, Utah, gathering sun rays and reflecting them to a pyrheliometer to be measured.

Convair built the 30-inch "dish" to get the strength required for field experiments. The apparatus is more than twice the size of the usual laboratory collector.

Circular, with a slightly conic surface, it gives the appearance of a large aluminum soup bowl. From the surface, the rays of the sun are reflected to the focal recting the experiments.

A solar energy collector made point a few inches outside the collector, where a pyrheliometer is set up. The pyrheliometer does the actual measuring.

Since solar radiation is a factor in atmospheric diffusion, tests will be valuable in studies of both atmospheric and cloud diffusion.

Fred Leopard, Dept. 6-8, was technical designer of the energy collector, and mechanical design was done by R. E. "Dick" Arms,

Reuben Fields, Dept. 6-8, is di-



COLLECTOR—Solar energy collector at Convair FW reflects sun's rays to energy measuring device at center. Inspecting it (left to right) are R. E. "Dick" Arms and Reuben Fields, Dept. 6-8, and Charlie Johnson, Dept. 23-1.

First Passenger Seats Arrive For Installation in Jet 880

First passenger seats for a of "ditching. Convair 880 jet transport arrived at Convair San Diego Plant 1 the justable head rests, folding food middle of this month.

Slated to go into the first production plane for Trans World Airlines, the ship's set numbers 36 double seats for 72 passengers. Next set, for Delta Airlines' first Convair 880, is scheduled for delivery the first of No-

The large contour seats are of ductile aluminum alloy, upholstered with plastic foam for passengers' comfort. Fabrics were selected by the airline customers in consultation with Dorothy Draper Inc., New York City de-

signers. Colors chosen by TWA are vermilion alternating with groups covered with a textured fabric of beige with brown and white thread stripes. The cushion covers are fastened with the new adhesive nylon felt stripping, Velcro, replacing zippers and snaps. Removable bottom cushions are designed to serve double duty as life preservers in case

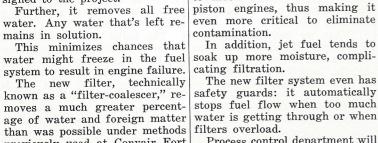
Built-in features include adtrays, ash trays, pockets for folders and maps, and stewardess steps to provide accessibility to overhead hat racks.

Sliding center arm rests and seat belts attached to energy shock absorbers will provide maximum safety.

Designed by Convair SD engineers, 880 seats are being fabricated by National Seating Co. at Mansfield, Ohio.



"Oh Bob! Not another labor-

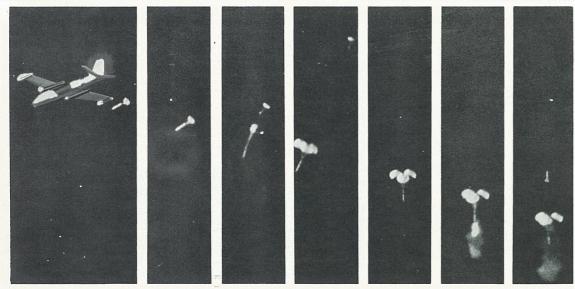


Convair is one of the first aero- unit once a week.

previously used at Convair Fort



DE-CONTAMINATION—From fuel tank truck, right, through new filter center and finally to B-58 at left, jet fuel is freed of any water and particles. Inspecting operation are S. R. Allen of traffic, Marce Stevens of process control and W. E. Harwell, Dept. 20-2.



ON UP AND UP—Photo series shows Rocketsonde dropped from plane, parachute deployment and then ignition of rocket motor as rocket continues on upward journey.

Novel Rocket Developed at Pomona Radios Weather From 40 Miles Up

A unique rocket developed at Convair Pomona shows promise as the answer to the problem of naissance Laboratory and the Diobtaining vital high-altitude rectorate of Procurement at weather information over ocean and polar regions.

In successful tests the device, called the "air-launched Rocketsonde," has radioed weather data to its launching aircraft from nearly 40 miles above the earth's

The rocket is less than eight feet long, and is fired from a launching tube suspended from three parachutes after being dropped from a high-flying aircraft. It was developed in a three-year program conducted by Convair Pomona for the U. S. Air Force's Air Research and Development Command.

N. E. Maxwell was project engineer for the program, and he has been assisted in the project by K. F. Bloom, Maxwell reports to W. J. Morrow, chief of advance development. M. R. Seabrook assisted with early testing of the device, and in more recent tests assistance has been given by J. H. Wilberding.

Two Attend Course On Speed Movies

R. R. Koser, Convair SD motion picture assistant supervisor, and Jack Matthews of the SD still photo section attended a short course in high speed photography last week at the University of Wisconsin. Representatives from industrial firms throughout the United States were enrolled in the course which showed latest developments in the field of filming high speed movies.

Toothy Typewriter Greets FW Steno

A typewriter almost "bit" a Convair Fort Worth steno when she opened it to find a glistening set of false teeth!

Word got around and the owner claimed the teeth and explained that he had been drafted to do some typing in a crash situation the night before. Best he could figure was

this: he had removed his teeth and put them in his shirt pocket while he typed. When finished, he apparently bent over the typewriter and the teeth fell out unnoticed.

The Convair engineers worked closely with the Aerial Recon-Wright Air Development Center, Wright-Patterson Air Force Base, Ohio, in developing the new device.

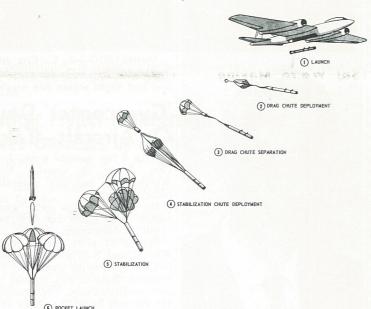
Some of the testing was done at Pomona, while tests conducted from aircraft were performed at Holloman Air Force Base in New

The Rocketsonde is carried in a reinforced plastic tube in the bomb bay of an airplane. The tube is dropped at an altitude of approximately 20,000 feet. A drag chute slows the tube, and three larger stabilization parachutes spread out in a cloverleaf pattern, leaving an open space directly above the top of the launcher tube.

In less than 20 seconds after the tube is dropped from the plane, the Rocketsonde is fired from the launcher tube straight up into the atmosphere.

Six seconds later the rocket is traveling at Mach 4, or about 2,600 miles an hour. coasts up to about 200,000 feet, where the instrumented nose section is released for a slow parachute descent to earth. The instruments immediately start taking temperature, pressure, humidity and ozone content readings, and relay the information back to the launching aircraft by radio. Readings are transmitted every two seconds.

The information is then relayed to weather forecasters, who keep pilots and missilemen constantly advised of high-altitude weather conditions



SEQUENCE—Sketch offers clearer story of how Rocketsonde is launched from high-flying aircraft before continuing to 40-mile

Jet 880 Hostess and Steward Procedures Discussed in Three-Day Course for TWA

the first 880 nostess and steward | for briefing held this month at Con-

Ground handling of food, baggage, pillows and blankets, and hostess duties in Convair jet transports when they start carrying passengers over the coun-

Comfort of future Convair 880 | try's air routes next spring, were passengers held the spotlight at discussed in a three-day course TWA representatives.

Nine TWA personnel, all in

charge of different facets of steward and hostess management and training, were at Plant 1 for the 24-hour course, Oct. 7-9. They were given an intensive briefing in familiarization of 880 equipment in customer service training classes under direction of R. W. Fitzgerald, instructor. Lucille McNally and Betty Burger, first women to attend Convair 880 training classes, were included in the group from TWA headquarters at Kansas City, Mo. Miss McNally is supervisor of hostess training for TWA and Miss Burger, hostess instructor.

Others were D. W. Heep, director of terminal service; W. S. Borden, manager hostess/purser procedure; P. E. Illman, manager passenger service training; D. M. Newton, field representative; K. M. McAninch, instructor station training; Harold Mason, superintendent station training; H. S. Turner, manager commis-

Firm Decisions, Definite Goals Urged by Ehricke In U.S. Race For Space

Convair already has a great immediately apparent, he added. tradition in space exploration to live up to. We must not ask our into orbit, we discovered more selves "What can we do next?"
Rather, we should ask, "What do
we want to do next?"

Krafft Ehricke, Convair Astronautics space expert, told mem- space. bers of Convair SD's Management Club this month that it must be decided when advanced space systems fit into the overall for boosting bigger payloads into plan and time the moves with the economy of the country to permit maximum effort.

Ehricke said the government must make firm decisions so that program emphasis is not scat-tered in all directions. "Assignments should not be split down the middle; otherwise, everyone makes the others' mistakes."

The possibility of energy conversion development on surfaces other than the earth is a major reason why the United States must pursue space exploration, Ehricke warned.

Energy conversion on another planet could be turned into something similar to a "death ray," he said. "With the possibility that such a weapon could be used against us we must conduct our own experiments, not just sit and

It pays to look into the unknown, even if the results are not did not greatly matter."

riddles and secrets." He cited the discovery of belts of intense radiation around the earth as an unexpected discovery in near

The Astro scientist discussed advanced plans for interplanetary exploration, emphasizing the need

A still unanswered question for the space voyager, he said, is whether or not we can get him down following a period of weightlessness. An astronaut would be weightless while in orbit, then experience, upon reentry, stresses eight or nine times greater than those of gravity.

Ehricke said he believed that whoever solves the problem of "rendezvousing" (actual physical contact with astronauts in space) will have a definite advantage in the space race.

He said he was impressed with the American astronauts when they visited Convair Astro recently. They were more concerned with accelerating the Mercury man-in-space program than slowing it down for trifles.

"They said the risk was already so great, that a little more

'Space Ship' Coating Materials Tested for Resistance to Heat

Materials which may coat ve- | characteristics of the material, is hicles going into space are being projects group of Convair San

By means of the lab's infrared spectrophotometer, organic compounds can be "fingerprinted" to see just what qualities they possess—how much heat they will reflect or absorb.

These studies may determine types of materials which will be used around engines of space vehicles, or to coat objects within the space ships themselves, explained E. E. Keller, materials and processes lab assistant su-

Present studies for space research projects can ascertain just how certain materials will react to extremely high temperatures or to ultraviolet radiation by a "before" and "after" examination of molecular changes.

Taking the guesswork out of analysis of materials, the two spectrophotometers in the lab, one for short wave lengths and great value in Convair research in accurate and quick identification of compounds. A drop of liquid can be analyzed

length, showing the particular their particular projects.

scanned and recorded on permantested by the special chemistry ent file cards for future reference. Source of the radiation is Diego's materials and processes a "Nernst glower," small heatresistant element made of high temperature oxides such as zirconium, yttrium, and thorium. The radiation is split up by prisms made of ordinary rock salt to get a single wave length which is detected by a thermocouple and recorded on a scanner.

> Solids, liquids, and gases can be analyzed. The different materials that combine to make up adhesives, lubricants, hydraulic fluids, sealants, fuels, and protective coatings can be recognized by their absorptions at various wave lengths and positively identified.

Operators Francis Graber and John Trias have been called on to analyze a tiny drop of oil to determine just what part of a plane it has come from. In other "trouble-shooting" assists, contamination-foreign particles or gummy substances—in such materials as fuel oils and paints has the other for long, have proved been positively identified for separation and future elimina-

Infrared spectrophotometers also are in use in other parts exactly in as short a time as 15 of Convair SD, in Plant 2's process control lab, in electronics, By subjecting the material to and in physics function of engiinfrared radiation, the wave neering, for studies pertaining to



MATERIAL TESTING—John Trias identifies organic compounds by wave lengths on infrared spectrophotometer in Convair SD materials



IN TRAINING-Two women and seven men from TWA headquarters, Kansas City, Mo., take first Convair 880 hostess and steward course in Convair SD customer service training location this month.





CONVAIRIETY



COLD AND CLEAR—At Morrison Springs, Fla., two Convair FW diver-photographers have had watery field day. In center is E. E. "Gene" Eichholtz, garbed for dip with underwater motion picture camera and at left he is shown under surface

in photo snapped by F. E. "Fred" Carlile, using adapted Rolleiflex. At right, enlarged from 16 mm movie film, are Carlile and Eichholtz at mouth of cave. The men were at the Florida location on B-58 assignment.

Divers Explore Florida Caves

water, skin diving.

design engineer in Dept. 6-4, and signment to B-58 flight testing took advantage of nearby Morrivair Fort Worth men spent a underwater photography and ex- Diving technique is the same as A movie camera, equipped with gets for their cameras.

part of their weekends under- | plore unique submarine caves.

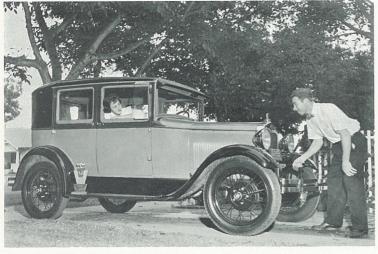
The spring, about 50 miles E. E. "Gene" Eichholtz, senior | from Fort Walton, Fla., is one of the largest in the world, gush-F. E. "Fred" Carlile, photo lab ing an estimated 65 million gal-During a recent seven-week as- assistant supervisor, Dept. 17-2, lons of water a day. Skin divers signment to B-58 flight testing at Eglin AFB, Florida, two Conspirings to experiment with clear, fresh, 68-degree water. the watery weekends, with Eichholtz operating his 16 mm Pathe varieties of fish made good tarhave descended to 290 feet into

in salt water, except that the home-built water-tight case. Cardiver is not quite as buoyant.

Eichholtz, a five-year diving adapted Rolleiflex. veteran, descended as far as 150 Both divers took particular feet, but most of the diving was care to avoid the eels which are at 50 to 100 foot levels.

lile specialized in stills, using his

sometimes found in underwater Photography added purpose to crevices, the only dangerous form



GOOD AS NEW-Homer Overton (Dept. 27 at Pomona) and his wife, Beverly (Dept. 22), are shown with 1928 Model A Ford they have restored to "showroom" condition over past year. Car recently won first place in Pomona Valley Auto Show. Crank is for benefit of photographer, as car has adequate starter.

\$350 Investment

Rebuilt Model A Cruises at 50; 30 Miles a Gallon on Regular

There may or may not be a gine, and rebuilt the transmis-"Ford in your future," but if you sion. In fact, all of the "work-are past the age of 25 the chances ing parts" are new. The car is are that there has been a Model finished in original colors-A Ford in your past, according Convair Pomona's Homer two-tone brown. erton (Dept. 27). "I paid \$125 for the car, and Overton (Dept. 27).

the annual Pomona Valley Auto car at \$750." Show last month. He had restored it to "like new" condition.

"I started the job on the sedan by removing everything from the months, Overton said. frame except the shell of the body," he said. "I repaired or 50 miles per hour, will do 55 317th FIS the summer of 1957. up, inside and out."

He also installed a rebuilt en-

Speedy Stork Races Delta 440 and Wins

A speedy stork, with a will to win, recently raced a Delta Airlines' Convair 440 and boarded in mid-flight.

Soaring at 9,000 ft. over Malden, Mo., Mrs. Hugh Ector of British Columbia delivered an 8-lb., 4-oz. girl with the assistance of a Navy medical corpsman and the stewardess.

Ironically, an obstetrician was also on board. He looked in on the amateurs as they assisted with the birth, but said nothing. Later, he explained, "The corpsman was doing such a professional job, I thought he was an obstetrician."

Delta officials showered Mrs. Ector with gifts for baby Suzanne. Among them was a desk set with a model of the 440, a miniature of her birthplace.

"copra drab and seal brown" or

At any rate, there is a Model spent another \$225 for parts and A in Overton's present—a 1928, engine rebuilding, so the car cost four-door sedan—and it won first us \$350, not including our labor," place in the "antique class" at Overton said. "We now value the

Working afternoons, evenings and weekends, the entire restoration took about seven or eight

replaced everything that was without strain, and has a top worn, and gave the car a com- speed of about 60 "on a down-hill Diego, he finds it a little warm It gets about 30 miles on a gallon of regular gas.

"Many forget that the Model hp," Overton explained.

The 1927 Model A roadster Overton is currently rebuilding is a much lighter car than the sedan, and he expects that it will do between 65 and 70 miles per hour without strain.

The rebuilt engine in the sedan now has about 500 miles on it, and will not be completely broken in for another 1,500 miles, he said. He believes the car should be able to travel 120,000 more miles without further major repairs.

Overton has been interested in cars for as long as he can remember, and at one time was active in hot rod clubs in the Pomona Valley area (Convairiety, July 14, 1954).

"After I restore the roadster, I plan to get a Model A touring car," he said. "With these three cars I should have enough transportation to last me for 15 or

Alaska Tour

'Sour Dough' Hal Wilson Home to SD

Back from 28 months in the snowy northland is Hal Wilson, Convair SD field service engi-

Polar bear hunts, temperatures as low as 50 below, 10-ft. snow banks, strong winds, little sun, and many strong friendships number among Wilson's memories of his more than two years in Alaska. He had been stationed as Convair SD's represen-



"BLINDERS"—Hal Wilson, Convair SD field service rep, hides behind snow glasses brought back from Alaskan tour of duty.

tative at Elmendorf AFB from the time the first F-102s went to

Though glad to return to San after top summer temperatures of 70 degrees.

Among his mementoes, Wilson A engine is rated at only 24.6 brought back a pair of slitted snow glasses of whale bone with caribou hide thongs worn in the extreme north to prevent snow blindness.

> A 14-verse departure "eulogy" read at a squadron farewell party in his honor commanded that he "Tell all your Convair staff, and their crew of fancy Dans, not to mix their order for F-102s with those of Prince Albert cans!"

75 Words in 50 Secs. Wins Typing Race

Fred (Mrs. George) Young, Dept. 6-6 Convair FW, won a portable typewriter last week in a typing contest sponsored by a local theater.

Her 75 words in 50 seconds was the best turned in during the two-week contest span. Although she types on an electric typewriter at work, her competition speed was set on a manual.



WHIRLYBUG-J. C. Cox of flight is first Convair Fort Worth 'whirlybug' to build his own helicopter during spare time. He plans first test flight within two weeks.

'Gyrocopter' Doubles as Scooter Or Aircraft-Take Your Choice

With a few months work, J. C. struction manual. Then the gy-Worth, now has sky unlimited the actual flying by feel.

He has built his own "gyroflight in November.

War II and B-29 pilot in Korea, bought gyrocopter plans but the finished version will include his own modifications. For instance, the fin will be in the shape of a B-58 silhouette.

The majority of parts for the is 60. copter were made by Cox with buy the 72-hp engine, wheels, rotor and prop. Total cost will be about \$400 or \$500.

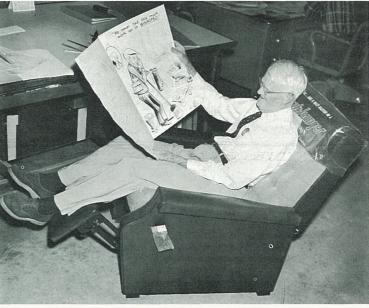
the gyrocopter is reading an in- as low as 15 mph.

Cox, Dept. 12 Convair Fort ro-pilot is on his own, learning

Cox is already a licensed pilot, but the Federal Aviation Agency copter" and plans his first test requires only a student license for gyrocopter flying. The craft Cox, B-24 pilot during World itself requires an experimental

The gyrocopter can be driven along the street (with air lift blade locked) like a motor scooter or can fly at top air speed of 85 mph. Highest ground speed

It depends on forward motion hand tools in his garage. He did buy the 72-hp engine, wheels, tained from the free-turning overhead blade), so it cannot hover like a helicopter. However, First step in learning to fly it can maintain altitude at speeds



RETIRES AT 80-H. H. "Ham" Hamilton, FW Dept. 6-5 engineering illustrator, tries out chair, a retirement gift from friends. He joined Convair when he was 66 and now is 80. Ham expects to get in more golf (he has had time for only weekly game until now!) and maybe Florida trip. His long life explanation is: "Heredity! Father lived to 94 and an uncle to 96.

NEWS FROM OTHER DIVISIONS OF GENERAL DYNAMICS CORP.

General Dynamics Corporation, created in April, 1952, as successor to Electric Boat Company, is composed of six divisions and a Canadian subsidiary, Canadair Limited of Montreal, airframe builders. The divisions are:

Convair, head offices at San Diego, Calif., aircraft, missiles and space systems. Electric Boat of Groton, Conn., submarines.

Stromberg-Carlson, of Rochester, N. Y., telecommunications, electronic equipment. Liquid Carbonic of Chicago, Ill., carbon dioxide producer, industrial and medical gases. General Atomic of San Diego, Calif., nuclear research, development, production.

First CL-44, Conventional Side-Loader, Leaves Factory, Swing-Tails to Come

First CL-44 Canadair's new five inches. turboprop transport, has left the well advanced.

length, 136 feet, eight inches; landing are 205,000 lbs. and height, 38 feet, seven inches; 165,000. cabin length, 98 feet, seven inches; cabin height, six feet, nine inches; cabin width, 11 feet, ransport, 12 of which have reighter-airliner project.

Electro Dynamic of Bayonne, N. J., electric motors, generators.

Powerplant is four Rolls-Royce factory at Montreal and Can- Tyne turboprops, 5,730 e.h.p. with adair reports serial production is 16-feet diameter de Havilland ell advanced.

The airplane, largest ever built mph with cruising at 370. Maxiin Canada, has these dimensions: mum range is 6,275 statute miles, wing span, 142 feet, three inches; carrying a payload of 33,700 lbs. wing area, 2,075 square feet; Maximum weights at takeoff and

been ordered by the Royal Canadian Air Force. Swing-tail, rearloading versions for freight transport have been ordered by Flying Tiger Line (10 on order) and Seaboard and Western Airlines (five on order).

First flight of the CL-44 is expected by mid-November.

Canadair this month published issue No. 1 of a "Canadair Forty-



POSED—First Canadair Forty-Four, long-range, four-engine turboprop transport, poses on tarmac behind Canadair's Montreal plant. It is largest aircraft ever built in Canada. Swing tail loading versions of this aircraft will follow later.

Holt Ordered To Rome Office

a new Convair field office at Boat Division. Rome, N. Y.

by Ken Campbell, Convair Day-ton office manager, to whom the project manager for Electric new Rome office will report.

Holt's job will be to maintain liaison with the AF's Rome Air called Natural Circulation Re-Development Command (an Air actor (NCR). Dunn will head an Research and Development func- EB staff working on design and tion) and Rome Air Materiel

At Rome the Air Force concentrates its work on ground nuclear submarine propulsion communications and development and procurement of electronic Stromberg-Carlson items and systems.

Holt was a senior aerophysics engineer at Fort Worth, where he joined the company in May of Richard C. Palmer of Chevy 1954. He took a B. S. and an Chase, Md., as a vice president M. A. in math at University of of Stromberg-Carlson Division Tennessee. He is moving his was announced this month by wife and children to Rome.

Industrial Engineers To Hear About Costs

"Indirect Costs" will be the American Institute of Industrial Engineers.

H. W. Gibbs Jr., Dept. 8, is Corporation. in charge of arrangements. The seminar will begin at 8:30 a.m. at Colonial Country Club.

Topics will include finding profit leaks, measuring overhead labor and how supervisors can control costs.

Gibbs pointed out that control of indirect costs is becoming increasingly vital. This is due to ever stiffer competition for the Air Force dollar.

Reservations or additional information may be obtained from Gibbs at ext. 2847 or CR-5-2253.

Nuclear Project Managerships Assigned Three Engineers by Electric Boat

Grady Holt of engineering has have been assigned nuclear proj- main primary coolant pumps. left Convair Fort Worth to open ect managerships at Electric

Thomas W. Dunn of Stoning-His appointment was announced ton, head of the Triton nuclear Boat's participation in an Atomic construction of an NCR power plant whose principal target will be substantial simplification of

Vice Pres. Appointed

ROCHESTER - Appointment Robert C. Tait, president.

Palmer will manage Stromberg-Carlson's office in Washington, D. C. In addition to his Washington responsibilities he will assist Stromberg - Carlson management in Rochester in the theme of a problem-solving semi- coordination of company - wide nar Nov. 13 sponsored by the government relations programs Dallas-Fort Worth Chapter of the and military marketing. He comes to Stromberg-Carlson from Fairchild Engine and Airplane



GROTON — Three engineers | systems by elimination of the

John A. Serrie has been named to replace Dunn as Triton project manager.

Ira A. Glass Jr. becomes Tullibee project manager. Glass replaces Joseph D. Pierce, previously assigned to manage the newly - formed contract control department.

EB Purchasing

GROTON — Atomic submarine building here has pumped nearly \$40 million into the nation's economy during the past year according to figure released recently by General Dynamics Corporation.

money went to 2,874 different business firms in practically every state as the shipyard wrote more than 34,000 purchase orders for materials and services.

Of the firms receiving orders, 77 per cent are classified as "small" businesses, employing less than 500 persons.

Geographically, the Middle Atlantic States did the biggest volume of business with the shipyard. Next in line was New Eng-

S-C Sales Manager Named at San Diego

SAN DIEGO-George W. Mc-Ginley has been appointed sales manager of Stromberg - Carlson at San Diego, Warren C. Dunn, manager of marketing, announced this month.

McGinley will be responsible for all sales activities of highspeed electronic printers, data display and recording devices, CHARACTRON shaped beam tubes and other electronic equipment.



EARLY AIRPORT-D-5 observation plane is shown at Ithaca, N.Y., airport, one of nation's earliest municipal fields.

95 mph U.S. Speed Record Claimed For Thomas' D-2

Convairiety's continuing history enterprises would require addiof Convair Division of General tional financing if they were to Dynamics Corporation.)

Glenn H. Curtiss, B. Douglas 1917. The Morse Chain Co. of Thomas joined Thomas Brothers Ithaca paid off the indebtedness, Co. of Bath, N. Y. He was no put up working capital and took relation to William T. Thomas, control as the only stockholder. the firm's founder.

For Thomas Brothers he designed a new biplane, the T-2, an effort to improve on the Model J drawn for Curtiss.

Designer Thomas was unsalaried but worked under an agreement that he would supervise construction and receive half the profits. Work began at Bath but the company transferred operations to Ithaca, N. Y., Dec. 7, as chief aircraft design engineer. 1914, where the Board of Trade Except for the post-war S-7 had offered an attractive inducement—a year's free rent on a all aircraft designs produced by three-story building on Brindley Street. The flying school was the company. (W. T. Thomas set up on one of the country's left the firm about 1921, and earliest municipal airports, a dirt for many years devoted his time runway carved through a peach to building and flying powered orchard on the shores of Lake model aircraft.) Cayuga.

The T-2 flew in the spring of 1915. A British purchasing commission tested it and placed orders for 24. Hopes for additional orders faded, however, because of a growing shortage of Curtiss OX engines used to power the plane. Consequently, the company on Aug. 5 founded its own engine-building auxiliary, Thomas Aeromotor Co. Its first product was the 135 hp Thomas Model Corps Aviation Section. Span 8, a geared vee type designed by George Able and Harold Bliss, two officers of Aeromotor.

Thomas designed the D-2 for this power plant, and the company claimed an unofficial American speed record of 95 mph. A contemporary volume of Jane's feet in 10 minutes. Aircraft pictured the D-2 as the first U.S. plane to exceed 100

(Howard O. Welty, now of Astronautics Division, who researched this history of Convair, commented on the Jane's statement: "Even in those days, airplanes sometimes made their fastest times on typewriters.")

sold to the Navy in 1916.

By the latter part of 1916 it planes.

(This is installment No. 20 in | was apparent that the Thomas remain in business. This led to Following his association with Morse Aircraft Corp. on Jan. 31, control as the only stockholder. (A principal stockholder in Morse Chain was Herman H. Westinghouse, of the air brake family.)

Frank L. Morse, president of the parent company, headed the new corporation. W. T. Thomas was named vice president, and the Thomas Brothers' general manager, J. A. Fried, became treasurer. B. Douglas Thomas continued with the organization trainer, he was responsible for Thomas-Morse during the life of

'Observation' **Ships Popular**

Thomas Brothers D-5, pictured at the top of this page, was a two-place "observation" biplane, built in 1916. Two were built and sold to the Army Signal was 52 feet, nine inches; length 29 feet, nine inches; gross weight 2,550 lbs. Wings were of unequal span (the lower wing was 34 feet). Its engine was Thomas Model 8,135 hp, maximum speed 86 mph. It could climb to 3,600

"Observation plane" is an unused military classification today. However, it was of major importance in the 20s and 30s. Post-World War I doctrine gave combat aviation three functions-to attack the enemy in the air (with fighters) and on the ground (bombers) and to work with friendly ground forces (observation plane). Army procurements A pair of pontoon-equipped D- in the 10 years from 1921 through 2s designated Model HS were 1930 included 208 bombers, 695 fighters and 1,593 observation



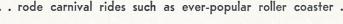
"I'm sorry you got your hopes up, but we can't just total up your gas bills and call it 'loss by fire' . . . !



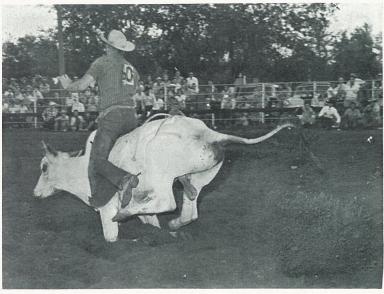


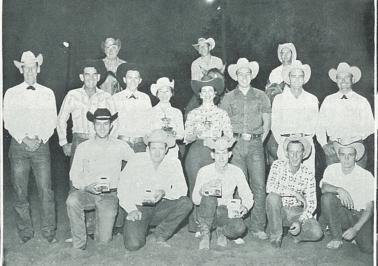


CON-FAIR—Started off with a bang as kids and grown-ups | . . . rode carnival rides such as ever-popular roller coaster . . . | enjoyed midway rifle shoot game . . .



. . participated in rodeo Women could barrel race . . .







... braver men attempted to stay aboard bucking bulls ... | ... and they collected prizes for their efforts ...

. . . while riding only the fences were enthralled spectators . . .

Log Book Entries

Promotions

FORT WORTH

Promotions to and within supervision, professional and administrative effective October 12:

professional and administrative effective October 12:
Dept. 4: to cost estimator, K. D. Gentry; Dept. 6: to aerophysics engineer senior, K. H. Barnes, D. L. Brooks, J. Sandoval; to aerophysics laboratory group engineer, L. E. Heizer; to associate engineer, B. M. Boaz; to chief of nuclear design and operation, R. L. Seale; to design engineer, C. C. Bullock; to group engineer, G. C. Ladd; to nuclear engineer senior, E. G. Fritz; to structures engineer senior, J. H. Walker III; to test engineer, R. F. Graham; to weight coordinator, B. F. Hendrix.

Dept. 8: to manufacturing engineer A, R. T. Yaggi; Dept. 21: to project coordinator, R. B. Booth; Dept. 22: to manufacturing project analyst, C. Tindell.

Dept. 64: to assistant foreman, V. J. Lombardi; Dept. 82: to tool manufacturing assistant foreman, C. H. Toggweiler.

Dept. 85: to product support engineer senior, W. I. Lane Jr.; Dept. 89: to subsystems cost coordinator, J. L. Boyd, J. T. Whitson Jr.; Dept. 93: to assistant foreman, R. E. Coakes.

Ketirements

BAKER—R. A., Dept. 22. Original hire date, September 5, 1950 (FW), retirement effective October 31. Rt. 1, Box 87G, Azle, Texas.

DEARING—H. W., Dept. 54. Original hire date, October 4, 1943 (FW), retirement effective October 9. Rt. 2, Box 21A, Mansfield, Texas.

HAMILTON—H. H., Dept. 6-5. Original hire date October 19, 1944 (FW), retirement effective November 6. 7320 Davenport, Fort Worth, Texas.

MOORE—L. L., Dept. 32. Original hire date, December 6, 1949 (FW), retirement effective October 30. 936 Hackamore St., Fort Worth.

Births

HOLDER—Karrie Lynn, girl, 8 lbs. 4 ozs. born Oct. 20 to Mr. and Mrs. C. F. Holder, Dept. 27.

Deaths

THOMAS—J. T., Dept. 22, died Oct. 21. Survivors include his wife, one daughter, one stepdaughter, four brothers and five sisters.

I would like to express my sincere thanks to department 64 employees for their acts of kindness during my son's recent illness.

Wallace Neumann, Dept. 64.

Hitchhikers

Ride Wanted From

3205 Evans, 7 a.m. shift, call A. B. Phillips, WA 4-0318.
3241 Lubbock, 7 a.m. shift, call Jean McGerrity, WA 4-9011.
605 Parkdale, 7 a.m. shift, call Daryl Skelton, JE 6-2991.

1001 Sharondale (Greenbrier Add.), 8 a.m. shift, call Dawn Vinson, WA 3-6482 or PE 2-3174.

Mitchell, BL 2-0515.

236 N. Waverly, Dallas, 7 a.m. shift, call Tommy Adams, WH 6-4866.

5800 Tracyne (Westworth Vill.), 8 a.m. shift, call Betty Briley, PE 2-0289.

4700 Collinwood, 8 a.m. shift, call J. L. Milner, PE 2-0766.

4201 Valentine, 7 a.m. shift, call Kenneth Schmidt, PE 2-4719.

Arlington Heights, near Ridglea Shopping Center, 7 a.m. shift, call E. L. Holloway, Dept. 75.

9863.

Seminary and TCU areas, 7 a.m. shift, call B. J. Carbell, WA 4-5248.

Car Pools

MEMBERSHIP WANTED—from West-creek, south of loop 217, 8 a.m. shift (cafeteria lot), call WA 3-8303.

Lost and Found

FOUND—Neatly packaged Bronze Star medal found in toys picked up by boy scouts. Call W. O. Smith, 3688 or 3555.

Convairiety

First Place Winner International Council of Industrial Editors

Founded Sept. 1, 1948. Published in six editions (Fort Worth-Daingerfield, San Diego, Pomona, Astronautics, Mail Edition and Antelope Valley-Holloman) by Convair Industrial Relations, General Offices, San Diego, Calif., Logan Jenkins, editor. Approximate current total circulation, over 65,000. News items and letters to the editor are solicited, but no advertising can be accepted.

SD Editorial Offices, Building 32, Plant 1, ext. 1071. Staff: Grayce Fath, Helen Pemberton, Fred Bettinger.

FW Editorial Offices, Col. 73-C, Ext. 2961. Mailing Address: Convairiety, Convair, Fort Worth, Texas. Telephone PE 8-7311. Staff: Bob Vollmer, Fort Worth editor; Susan Bagby, Mary Beck.

Astronautics Editorial Offices, Bldg. 2, new plant, ext. 1154. Staff: Bryan Weickersheimmer, Astronautics editor.

Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8, Staff: James Combs Jr., Pomona editor; Dorothy Keller.

Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.

Antelope Va Betty Lou Nash.

Personals

Irving, 3:45 p.m. shift, call C. E. Mitchell, BL 2-0515.

937 E. Lowden, 8 a.m. shift, call Carol Hensley, WA 3-7981.

Riders Wanted From

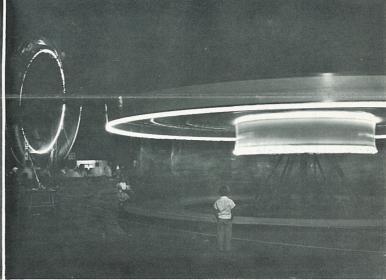
Grand Prairie, 8 a.m. shift, call Ellis Dawson, AN 2-2596.

riding and bull riding.

went to J. D. Matthews, with Mickey Hoefer coming in third. Red Calvert took second in steer roping. Third was Max Lane.

Calvert was a repeater, placing riding events, and in the cutting horse contest.





... who loved the clowns almost | . . . and when night fell the lights of the midway blazed a carnias much as the bulls did . . . | val story across the sky, as tired children watched.

Third Annual Con-Fair Sets Attendance Record With Three Day Total Exceeding 22,000 People

3257 Rogers (TCU), 8 a.m. shift, call people attended the third annual ing. T. P. Jolly, WA 6-4228. Con-Fair Oct. 9, 10 and 11.

The Convair Recreation Asso-Greenbriar Addition near loop 217, 7 ciation event tabulated 3,984 Friday night, 8,218 Saturday, and Ridglea West or West Arlington Hgts. 10,439 Sunday for a total that a.m. shift, call C. L. Solomon, PE 71 863.

Ridglea West or West Arlington Hgts. 10,439 Sunday for a total that surpassed last year's record. Mrs. M. Q. "Patsy" Wilson, en in addition surpassed last year's record 17,000 by more than 25 per cent.

A highlight of the event was the awarding of door prizes. Top prize, a portable television set, was won by J. C. Messick, Dept. 27-1, in the Sunday night draw-

The Con-Fair Rodeo was a big attendance-drawer. Friday night 1,138 witnessed the events, 2,102 Saturday and 3,287 on Sunday.

John Roberts and Carl Ford were repeated winners in rodeo events. Roberts placed first in calf and steer roping while Ford was winner of bareback bronc

Second place in calf roping

second in bareback bronc and bull

Third place bareback bronc rider was Bob Wakefield, and

A record - breaking 22,641 | Pat Derden was third in bull rid- | was second for the women's high

barrel racing.

M. Q. "Patsy" Mrs.

Dept. 6-8, did not participate in E. Allen and L. L. Clark won the rodeo, but she had a family thermos jugs. monoply on honors. Her 11-year-old son, Mike, took

first place in the balloon, barrel and boot races and won the calf scramble.

Her daughter Sharon came in third in the barrel race and fourth in the stake race.

Her mother, Mrs. Ed Ruckman,

Council Members Thank Volunteers

To Con-Fair Volunteers:

On behalf of the Convair Recreation Association Council, I wish to thank all the volunteer workers who helped us in various capacities during our recent Con-Fair.

Without their help the fair could not have gone on to a record-breaking success.

We are Sincerely grateful. Finn Wahl

point trophy, with points com-Edith Eggleston won the girls' puted for all three nights. She was third in the women's barrel Porter McAffee took first in race one night and tied for first

Nineteen door prizes were giv-Wilson, en, in addition to the TV.

Tool sets were won by Fred R. Keams and G. D. Boyd. K. D. Bell Jr. and John B. Clark won clocks. Dish sets were awarded to David H. Dunn Jr. and R. G. Billingsley.

Other winners included S. R. Williams Jr., bar-be-cue set; M. L. Newsom, ping pong set; G. R. Looney, cassarole dish; W. Galbard, ice cube crusher; George T. Morris, hot plate; Joseph J. Kroo, western pans and plates; F. M. Minir, mixing bowls.

Also R. E. Lucas, garbage can; H. W. Gilliland and P. G. Normand, ice chests; and Earl L. Davis, lamps.

Is it news? Then grab a tele-CRA Council President phone and call Convairiety

Rockhounds Hunt Topaz Stones At Mason Farm

Topaz will be the object of a field trip rock hunt to be taken by Convair Recreation Association rockhounds Oct. 31.

Members will meet at 6 a.m. at the Mason Hotel coffee shop in Mason for breakfast preceding the topaz hunt.

Davenport's Farm, about 10 miles outside of Mason, will be the scene of the expedition. Topaz hunters have been requested by Bob Norment, rockhound commissioner, to bring a small screen made of hardware cloth and a long handle shovel. Also they will be responsible for providing their own lunch and drinking water.

Topaz in its natural state is worth about \$1.35 a gram. On one field trip Norment found 600 grams.

After the Topaz hunt, rockhounds will cut and polish the stones to make jewelry with them.

Further information may be obtained from Norment, CI 4-

Tournament Deadline Faces CRA Bowlers

Registration deadline for Convair Recreation Association bowling tournament is Nov. 20. Men's tournaments are Dec. 12, 13, 19 and 20. Women will bowl Dec. 19 and 20.

Men's entries may be obtained from H. F. Carlberg, Tavener's Playdium, or CRA office. Wo-men may register with Jean Mc-Intyre, Carlberg, Tavener's or CRA office.

Early entrants will be given their choice of date and time.

Lake and Kitty Goelitz.

CRA Women Elect Officers Nov. 4

Election of officers will highlight the second meeting of the season for the CRA women's activity. It will be Nov. 4 at 7:30 p.m. at the CRA clubhouse.

refreshments will be served.



ROCKHOUNDS—Convair Recreation Association Rockhounds inspect new equipment that will be used in jewelry making. Left to right they are Jack Adams, Tom Dawson and Bob Norment.

CRA Stamp and Coin Activities Auctions to Be Nov. 3 and 10

Nov. 3 is the date for Con-| States stamps. Mrs. L. J. Robvair Recreation Association inson was second and E. D. stamp club's auction of lots fur- | Hinckley was third. nished by members.

Coin club will have the same type auction Nov. 10.

Winners of the stamp exhibit held during Con-Fair have been released by R. L. Wilson, stamp and coin club commissioner.

Joe Bennett is first place winner in the senior division, United

Contracts Dept. Buys **Christmas Presents** For Needy Families

Christmas cards cost about \$.14 Carlberg, bowling commissioner, reports that the "Slo Rollers" are leading the CRA Sunrise Mixed League. Team members are Alice Luke, Eldon Dyer, John Lake and Kitty Coelitz. apiece to send, so Dept. 11 (Conas will many other departments.

During the holiday season, a large card with the signature of everyone in the department is printed and circulated, making up

for the lack of individual cards. B. C. Ochojski, 11-0, heads the control committee for this sixth annual "Merry Christmas" project. Other control committee members are W. S. Lindsey, 11-6; The nursery will be open and R. D. Maxey, 11-3; D. F. Probst Marathon Golfer and J. A. Earle, 11-2.

CRA Women View Table Show Including China, Crystal, Silver

Table settings, including silver, clube "Red Christmas," "White crystal, china, cloths, flowers and and Gold Christmas," "Pink centerpieces, will be shown at the Nov. 4 meeting of the women's activity at CRA clubhouse.

Mrs. Ethel Warren will pre
and Gold Christmas, "Fink the Chri

Top honors in the senior divi-

sion, specialized, went to Mrs. Robinson. J. M. Frost came in

These three finished in the same

order in the senior division, cov-

Wilson was second.

Junior division first place win-

sent the show at 10 a.m.

Settings for formal and informal dinner parties, dinner for formal lunch will be on display. Wm. Payne Speaks Special occasion settings in-

Plays 363 Holes

J. J. Johnston, Dept. 65, celebrated his 43rd birthday Oct. 14 by playing 363 consecutive holes of golf.

He claims this is a new world's record for long courses (over 6,000 yards). His own score of 328 was said to be the standing record until he topped it himself.

Despite the 24 hour marathon, which began at 5:38 p.m. Wednesday at the Abilene Country Club, Johnston went to bed at midnight and got up at 7 a.m. the next day.

During the 80-mile round, Johnston lost only two balls. Lights were set up on the course to allow him to play all night.

Scope Makes Debut: **Public Now Viewing**

astronomers have made their held beginning at 1 p.m. Nov. 8 home-built 19 inch telescope at Forest Park. available for viewing every Wed-

Con-Fair, over 2,000 people used

Nov. 7 and 14 have been scheduled as work nights for astronomy activity members.

Skin Divers Plan **Spearfishing Contest**

scheduled for Nov. 1 by the Convair Recreation Association skin diving activity.

A Louisiana lake will be the destination of competing spear-

Convair Toastmasters Witness Model Meetings Nov. 2 and 5

Toastmasters will be held Nov. 2 lea.

Applicants for membership in one of the Convair Fort Worth Management Club sponsored Toastmasters Clubs will meet at

Pee Wee Ball Teams Plan '60 Season Now

Boys 8-11 years old weighing 60-109 pounds may now sign up in the Convair Recreation office for Pee Wee football next year.

According to football commissioner Larry J. Shirley, organization got under way too late this year to get the Pee Wee teams in play.

If anyone on the second or third shifts has a flag football team which would like to challenge the first shift winners, Shirley requests they contact him or the CRA office. Otherwise, first shift winners will become plant champions.

Weltman Is First In Bridge Series

Henry Weltman won first place in the last six weeks series second and Hinckley took third. bridge tournaments. M. S. Rubenstein finished second and Gene Black was third.

Weltman, bridge commissioner, ner was Dicky Robinson. Leon announces that a day bridge class will be formed if enough people J. T. Kehley won the door are interested. Applicants may contact the CRA office.

Demonstration meetings for | 6:30 p.m. in the Williamsburg about 140 prospective Convair Room of Wyatt's Cafeteria, Ridg-

> Residents of north and west Fort Worth will meet Nov. 2. Nov. 5 is meeting date for those who live in the south and east parts of town.

> H. F. Schubert, Dept. 8, says that persons attending the meetings will be asked to sign cards if they definitely intend to join the club. Preference as to meeting days and places will also be requested.

> Toastmasters Clubs are limited to 40 members each.

> The demonstration meeting programs will be given by members of active Toastmasters Clubs in the Fort Worth area. After the invocation, table topics or impromptu speeches will be given. Several prepared talks will follow, and evaluation speeches will climax the series of talks.

> Trophies, loaned by other Toastmasters Clubs, will be awarded the speaker judged best in each of three categories: table topics, prepared speeches and evaluations.

> A second part of the program will be information about Toastmasters Club itself. Dues, club constitutions, meeting times, and general procedures will be discussed.

Price for the dinner is \$1.85.

R. Razo Is Selected **'Outstanding Airman'**

Raymond Razo, second shift Dept. 64 employee at Convair Fort Worth, has been named 'Outstanding Airman of 1959" at the Naval Air Station, Dallas, at Hensley Field.

Razo, who is in reserve unit VF-704, was selected because of 'excellent attendance and participation in the reserve program."

He was presented with an engraved gold watch at the annual reserve unit inspection at Hens-The nursery will be open, and ley, Oct. 25.

Basketball Managers Meet at Clubhouse

CRA basketball managers will meet at Convair Recreation Area clubhouse at 7:30 p.m. tonight, Oct. 28.

Beginning Nov. 2, basketball workouts will be held from 7-10 p.m. every Tuesday and Wednesday at the R. D. Evans gymna-

The Passing

Fort Worth

The following emblems were due dur-ing the period November 16 through November 30:

The following eminens were due curing the period November 16 through November 30:

Twenty-year: Dept. 6, M. W. Martin; Dept. 32, E. C. Shuffitt.
Fifteen-year: Dept. 3, B. Vollmer; Dept. 6, A. M. Michael, A. C. Porter, J. W. Speight; Dept. 19, W. E. Garrison.
Dept. 22, W. E. Franz, C. G. Moore; Dept. 27, J. H. Gordon; Dept. 33, C. W. Miller; Dept. 36, A. S. Hutcheson Jr., M. E. McFarland, W. A. Pearson. Dept. 46, L. Grisham Jr., R. Timms; Dept. 46, L. Grisham Jr., R. Timms; Dept. 48, I. E. Webster; Dept. 53, A. H. Beasley; Dept. 55, J. S. Spear; Dept. 56, F. O. McDonald.
Dept. 57, P. E. Blakley, K. A. Tuggle; Dept. 59, M. O. Meador; Dept. 63, E. E. Bass, H. R. Stephenson.
Dept. 65, J. B. Davis, C. D. McGowen; Dept. 81, N. W. McLaughlin; Dept. 85, J. H. Greer.
Ten-year: Dept. 3, M. M. Fox; Dept. 4, J. W. Stiles, E. W. Willett; Dept. 6, R. C. Simpson, C. H. Strittmatter, J. P. Williams.
Dept. 7, B. M. Griffis; Dept. 12, J. D. Taylor; Dept. 15, I. A. Hester, J. L. Kleinecke; Dept. 18, A. J. Coble. Dept. 19, G. D. Wilson; Dept. 20, S. L. Burris; Dept. 22, A. H. Brannon, J. P. McIlhenny.
Dept. 23, C. F. Morris Jr.; Dept. 24, D. G. Baldwin, C. S. Heise, J. L. Kee, L. N. Mack, R. E. Pippin, D. T. Volkman.

L. N. Mack, R. E. Pippin, D. T. Volkman.
Dept. 25, H. L. Brown, W. C. Howard, H. L. McWilliams: Dept. 27, M. C. Moore Jr.; Dept. 31, R. L. Spence.
Dept. 32, D. S. Hester; Dept. 33, L. Bumpous, R. H. Butler, H. K. Jack, W. D. Layne, W. R. Robertson, L. C. Thomasson, W. A. Zerwer.
Dept. 35, V. S. Lemoine, M. F. Tims; Dept. 64, H. A. Dossin.
Dept. 73, E. G. Arber, L. F. Benge, R. Delance, J. C. Knight, R. M. Macy, O. C. Mason, W. C. Oatman, J. C. Whatley.
Dept. 74, H. E. Allison, A. P. Copeland, R. D. Cornelsen, A. P. Hill, F. E. Stevenson.
Dept. 81, H. S. Faries, R. L. Trotter; Dept. 82, E. G. Tucker.

To Plastics Engineers At Nov. 16 Meeting William M. Payne Jr., chief en-

the same price.

tickets may also be purchased for

gineer of the Ordnance and Missile Division of Universal Moulded Products Corp., will be featured speaker at the Nov. 16 meeting of the North Texas Section of the Society of Plastics Engineers.

His topic is "Structural Applications of Reinforced Plastics," particularly in the missile and ordnance fields.

Payne's job is concerned with research, development and production of reinforced plastic rocket motor cases and missile component parts. The meeting will be at the

Crossroads Restaurant.

Model Plane Club Sets Two Events

Convair Recreation Area clubhouse will be the scene Nov. 3 for a model airplane activity control line meeting. Time is 8

A control line contest will be

During the scope's debut at Col. Grable Speaks On Use of Missiles

Col. Francis L. Grable, chief of the B-47 and Missiles Division, USAF, will speak at tonight's meeting of the Texas Chapter of the Society of Aeronautical Engineers.

His topic will be "Air Force A spearfishing contest is Program Management of Quail and Hound Dog Missiles, and SAC Operational Use of These Weapons."

The meeting will begin at 7 p.m. at the Western Hills Inn on Hwy. 183.

Convair Recreation Association nesday from 7:30-11 p.m.

Activities Calendar . . .

Convair Recreation Association events in the next two weeks are listed below. Readers interested may clip this column and save it for reference until next issue of Convairiety. For more information, phone CRA office, ext. 2771 at Fort Worth, ext. 424 at Daingerfield.

Fort Worth

Tonight, October 28 ASTRONOMY: CRA telescope open to public, 7:30-11 p.m., CRA.

BASKETBALL: manager's meeting, 7:30 p.m., CRA. CAMERA: color slide contest, 7:30

p.m., CRA.
RANCH ACTIVITY: calf roping, 6-8
p.m., ranch area, CRA.
ROCKHOUNDS: silversmith workshop, 7 p.m., CRA

Thursday, October 29 ARCHERY: shoot, 7-10 p.m., archery

ARCHERI: SHOOT, range, CRA.
ART: class, 7-10 p.m., CRA.
BADMINTON: play, 7:30-10 p.m.,
Stripling Jr. High School.
RADIO: operating night, 7:30 p.m., RADIO: operating m.g., CRA.

CRA.

RANCH ACTIVITY: cutting, 6-8 p.m., ranch area, CRA.

SQUARE DANCING: classes: beginners 7 p.m.; advanced 8:15 p.m., CRA.

VOLLEYBALL: play, 6:30 p.m., Wm.

Monnig Jr. High School.

Friday, October 30 BRIDGE: duplicate session, 7:45 p.m., CRA.

RANCH ACTIVITY: roping, 6-8 p.m., ranch area, CRA.

Saturday, Oct. 31 RADIO: Convair Amateur Radio Club let, 3945 kc, 1:30 p.m. ROCKHOUNDS: Field trip, Mason,

Sunday, November 1 RANCH ACTIVITY: cutting, 5-7 p.m.; roping, 7-9 p.m., ranch area, CRA.

Monday, November 2 MOVIE: "Abbott and Costello Meet Keystone Cops." Shown lunch period, 50-foot aisle.

Tuesday, November 3 BASKETBALL: workouts, 7-10 p.m., R. D. Evans Recreation Building. CAMERA: photography class, 7:30 p.m., CRA.
MODEL AIRPLANE: control line meetRANCH ACTIVITY: cutting, 6-8 p.m., ranch area, CRA.
STAMP CLUB: auction, 8 p.m., CRA.
TABLE TENNIS: play, 7:30 p.m.,

Wednesday, November 4 Wednesday, November 7

ASTRONOMY: CRA telescope open to public, 7:30-11 p.m., CRA.

BASKETBALL: workouts, 7-10 p.m., R.
D. Evans Recreation Building.

BRIDGE: master point session, 9:30 a.m., CRA.
RANCH ACTIVITY: calf roping, 6-8

p.m., ranch area, CRA.
WOMEN'S ACTIVITIES: election of officers, 7:30 p.m., CRA. Thursday, November 5 ARCHERY: shoot, 7-10 p.m., archery range, CRA.
BADMINTON: play, 7:30-10 p.m., Stripling Jr. High School.
RADIO: operating night, 7:30 p.m.,

CRA.
RANCH ACTIVITY: cutting, 6-8 p.m., ranch aca, CRA.

SQUARE DANCING: classes: beginners, 7 p.m., advanced, 8:15 p.m., CRA.

VOLLEYBALL: play, 6:30 p.m., Wm.

Monnig Jr. High School.

Friday, November 6 BRIDGE: duplicate session, 7:45 p.m. RANCH ACTIVITY: roping, 6-8 p.m., ranch area, CRA. Saturday, November 7 ASTRONOMY: work parties, CRA. RADIO: Convair Amateur Radio Club Net, 3945 kc, 1:30 p.m.

Sunday, November 8 MODEL AIRPLANE: control line contest, 1 p.m., Forest Park.
RANCH ACTIVITY: cutting, 5-7 p.m.; roping, 7-9 p.m., ranch area, CRA.

Monday, November 9 MOVIE: "Tarnished Angels" with Rock Hudson and Dorothy Malone. Shown lunch period, 50-foot aisle. Tuesday, November 10

BASKETBALL: workouts, 7-10 p.m., D. Evans Recreation Building. CAMERA: photography class, 7:30 p.m., CRA.

COIN CLUB: auction, 8 p.m., CRA.
RANCH ACTIVITY: cutting, 6-8 p.m.,
ranch area, CRA.
TABLE TENNIS: play, 7:30 p.m., CRA.

Wednesday, November 11 BRIDGE: duplicate session, 9:30 a.m., fishers. Four Convair Fort Worth spon-

sored Junior Achievement com-

panies have chosen names and

Gendyn is the name selected

by the Tuesday night company

which will make Christmas can-

dles. Richard B. Davis is presi-

Two Wednesday night companies, Cojac and Novco, have been formed. Cojac, with Jerry

Katz as president, will manufac-

ture towel racks and ash trays.

Wooden puzzle games will be

Novco's product. Jack Marks is

James Chappell is president of

According to W. P. Engelfried

the Thursday night company,

Karvair. Ceramic wall plaques

Jr., Junior Achievement program

chairman, Convair personnel are

welcome at JA meetings which

are held every Tuesday through

Thursday from 7-9 p.m. at 828½

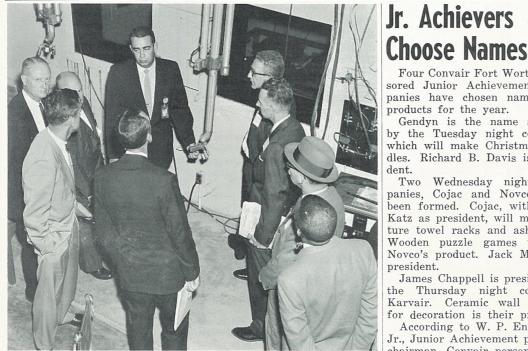
for decoration is their product.

products for the year.

president



—Members of manufacturing committee of Aerospace Industries Association pause during recent tour of Convair FW plant. They represented almost 30 companies. B. G. Reed, assistant division manager, was host.



PROTECTION-J. D. Eastes, center, Convair Fort Worth health physics section, demonstrates equipment used in nuclear area for protection against overdose of radiation. Listening are educators attending recent health physics symposium.

Doyle, Utley Running For Club President

(Continued from Page 1) Nominated for recording secretary is W. R. "Dub" Childress, Dept. 19-2. J. M. Langendoen, Dept. 8, was also nominated, but has withdrawn because of his transfer to Pomona Division.

E. L. Clerc, Dept. 3, and J. L. Coburn, Dept. 2-3, are running for corresponding secretary.

Five two-and-one-half yearterm members of the board of control will be elected.

Is It News? Call Convairiety

Radiation Check System Explained For Visitors

Professors and deans from col- | physics is constantly in use. leges and universities all over the southwest toured Convair Fort Worth during a recent health physics conference sponsored by Oak Ridge Institute of Nuclear Studies.

F. L. Paschal Jr., health physics administrator, was Convair host for the group, and Andrew Kalitinsky, nuclear program manager, gave the welcome address at the downtown meeting at the Texas Hotel.

Special emphasis was given to the nuclear area, where health



PHOTOGRAPHERS—Aaron Murray, left front, Dept. 17-2, Convair FW, gives industrial photography demonstration at recent meeting of Professional Photographers' Association held at plant. Bob Slawson, Dept. 17-2 assistant supervisor, is at right.



QUALITY LEADER—Supt. R. J. Hendrickson of inspection, right, presents quality leader award for September to Dept. 53, pod assembly, represented by J. O. Muncy, general foreman. Looking on, left to right, F. G. Bramlett, foreman Dept. 53, E. D. Routledge, W. H. Govett, both assistant foremen Dept. 53.

Purpose of the group's meeting was instruction on education and training for careers in health physics, climaxed by a discussion on Atomic Energy Commission Radiological Fellowships for study in this field.

Health physics is a relatively new science developed to protect employees in nuclear plants. Health physicists study, evaluate and control radiation hazards in

Safety of all employees from overdoses of radiation is the responsibility of the health physi-

AEC fellowships are offered to graduates in biology, chemistry, engineering or physics. At present, graduate schools participating in the program include Harvard and Vanderbilt and the Universities of California, Kansas, Rochester, Washington and Michigan.

After studying at one of these universities, the fellow receives three months' field training at a government laboratory.

BOAC Manager in U.S. Will Address Club

Trench Thompson, United States manager for British Overseas Airways Corporation, will speak on "What Part Civilian Aviation Plays in International Relations" at the Nov. 21 luncheon meeting of Convair Fort Worth Management Club.

Lloyd Gant, management club president, said the meeting will also feature introduction of new club officers who will be elected

FW Engineers Hear Dr. James Killian

Convair Fort Worth engineers heard a speech by Dr. James R. Killian on "Public Secondary Education" at a recent meeting of the Institute of the Aeronautical Sciences.

Dr. Killian, former president of MIT, is President Eisenhower's special assistant for science and

Scrap Loss Cut as Tape Control Tried First in Paper 'Dry Run'

Convair Fort Worth is saving time and dollars by the day.

Previously, the tapes had to be Previously, the tapes had to be tested by actually cutting into Hustler Vital valuable metals. The metal had to be scrapped if the tape proved in error, thus raising scrap losses and cost.

Now the tape gets a "dry run" on paper — and no cost except paper is involved if the tape proves incorrect.

During test runs in the past, milling machines were tied up for excessive lengths of time, in addition to running risk of creating scrap.

The dry run method employs a scribe consisting of a stylus mounted in the machine spindle which traces the cutter path on paper, as the tape controls the action.

One dollar is the total approximate cost of enough sensitized paper to test even the most complicated tape.

Of course, with the checking being done with a stylus which marks on paper, there is no way to test the depth of the cut. But this is minor, as compared to the



DRY RUN - New "dry run" method of testing machine control tape uses paper instead of expensive metal. Checking is L. H. Baumhardt, Dept. 23-1.

A new way to test perforated | complex, multiple profile cuts, tape which controls cutting oper- according to L. H. Baumhardt of ations of milling machines at manufacturing research and development.

To U. S. Defense

(Continued from Page 1) era of transition from aircraft for defense to missile for defense, and that in such times skimping on either program would be foolish.

He recalled telling the late Gen. George C. Marshall during the Korean conflict that he thought the people of the United States would never again be complacent and drop their defenses. "Do you think I'm naive?"
Pace asked the general.

"No," said the general. think you're incredibly naive."

After talks with Premier Khrushchev during his recent visit to the U.S., Pace concluded that the result of the visit on this nation "will depend on how we handle the situation in the future."

Earlier in the program, Convair President Naish presented the President's Award to Tom Paniszczyn of Dept. 6 for his outstanding Cost Improvement Proposal record in 1958.

Naish also commended Convair Fort Worth for racking up more than \$1 million in savings in the "Ideas to Esenwein" contest originated and promoted by Convair-

Naish said that the future depends not only upon ingenuity of design and technological competence, but almost equally as important upon cost controls.

"If we're going to survive in the years ahead, cost is one of the most vital things about which we must be concerned," he emphasized.

Frank W. Davis, Convair FW manager, in introducing Naish pointed out that Naish has had experience "at every level from mechanic to president."

Master of ceremonies was W. E. Emish, industrial engineering manager. Sponsoring departments were industrial engineering and facilities. Club President Lloyd Gant opened the meeting.



ON HIS WAY—Only actual ejection is missing as B-58 crew member trainees practice in Convair-built ejection seat and canopy system. AF employee, K. E. Mayfield, left, demonstrates procedure to M/Sgt. A. L. Hanson in seat.



-T/Sgt. R. C. Riley, Carswell AFB, and C. N. Main, Dept. 85-2 Convair FW, instruct AF trainees on B-58 hydraulic landing gear system, using working model trainer.